EXHIBIT R-2, RDT&E	Budget Item	Justification				DATE:				
			T					February 20	03	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM	`	,					
RDT&E, N /BA-7 Operational Sys Dev			0206313M I	warine Corp	s Communi	cations sys			Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Total PE Cost	114.659	196.004	235.722	267.268	216.991	222.829	108.814	89.932	Cont	Cont
C2270 Command Post Systems	24.853	27.943	9.090	7.980	11.820	9.954	8.800	9.243	Cont	Cont
C2272 Intelligence C2 Systems	16.862	18.352	17.616	32.424	27.747	21.017	17.465	15.565	Cont	Cont
C2273 Air Operations C2 Systems	21.930	65.142	95.971	106.936	79.117	106.415	31.574	20.324	Cont	Cont
C2274 Warfare Systems	8.575	7.987	9.727	5.655	5.468	4.562	4.253	4.633	Cont	Cont
C2275 Radio Systems	0.000	0.584	8.881	8.698	4.878	4.337	4.226	3.548	Cont	Cont
C2276 Communications Switching & Control Systems	1.427	4.513	6.381	3.815	4.675	3.921	4.042	3.428	Cont	Cont
C2277 System Engineering & Integration	11.772	10.736	8.907	7.991	9.597	8.768	9.043	9.204	Cont	Cont
C2278 Air Defense Weapons Systems	11.156	28.274	23.428	9.596	6.469	11.127	10.577	5.827	Cont	Cont
C2315 Training Devices/Simulators	13.073	8.580	12.423	8.317	8.434	5.651	4.293	4.446	Cont	Cont
C2510 MAGTF CSSE & SE	5.011	4.376	23.488	18.094	10.643	8.146	8.431	8.634	Cont	Cont
C3099 Radar Systems	0.000	0.000	19.810	57.762	48.143	38.931	6.110	5.080	Cont	Cont
C9279 Defense Emergency Response Fund (DERF)	0.000	12.490	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
C9276 Radar and Marine Corps Ship Maneuver	0.000	7.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.027
Quantity of RDT&E Articles										

EXHIBIT R-2, RDT&E Budget Item Justification	EXHIBIT R-2, RDT&E Budget Item Justification				
		February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT (PE) NAME A	ND NO.			
· ·		rine Corps Communications Sys			

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program element provides funding to develop the command and control (C2) support and information infrastructures for the Fleet Marine Force and supporting establishment.

Doctrinally, the C2 support system and the information infrastructure form two parts of a triad of capabilities which permits command and control systems to be transformed into a complete operating system. The third element of the triad is command and control organization and is not covered in this program element. USMC command and control is divided into seven functional areas and one supporting functional area as follows: intelligence C2, fire support C2, air operations C2, radio systems C2, combat service support C2, warfare C2, radar systems C2, and C2 support (information processing and communications).

Within this program element, subprojects have been grouped by C2 functional area for more efficient planning. Air defense weapons systems have been added to facilitate planning and a separate project is used for systems assigned to the supporting establishment. Subprojects which support the commander's decision processes have been collected into the Command Post Systems project since these systems must work in close cooperation to ensure effective C2 of Marine Air Ground Task Forces.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.

B. PROGRAM CHANGE SUMMARY

FY 2002	FY 2003	FY 2004	FY 2005
119.716	174.664	163.920	96.349
-0.325	-12.46	-1.216	-10.928
	33.800		
-2.028		73.052	181.832
-1.853			
-0.851		-0.034	0.015
114.659	196.004	235.722	267.268
	-0.325 -2.028 -1.853 -0.851	119.716 174.664 -0.325 -12.46 33.800 -2.028 -1.853 -0.851	119.716 174.664 163.920 -0.325 -12.46 -1.216 33.800 -2.028 73.052 -1.853 -0.851 -0.034

CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.(U) Schedule: Not Applicable.(U) Technical: Not Applicable.

EXI	HIBIT R-2a, RDT&E Pr	roject Justifi	ication					DATE:		
									February 20	03
APPROPRIATION/BUDGET ACTIVITY										
RDT&E, N /BA-7 Operational Sys Dev	DT&E, N /BA-7 Operational Sys Dev 0206313M Marine Corps Communications Sys C2270 Command Post S									
									Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	24.853	27.943	9.090	7.980	11.820	9.954	8.800	9.243	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Systems assigned to this project are to be used by commanders and their staffs to process, fuse, and tailor information to assist decision-making and enhance situational awareness. They will integrate and share information from sources both internal and external to the Marine Air-Ground Task Force (MAGTF) to provide a shared understanding of the battlespace. Maneuver C2 is the executive layer of decision support that retrieves and fuses information from functional areas. It provides an integrated representation of the battlespace or a specific area of concern. The subprojects below develop systems that report unit status and location to the Tactical Combat Operations (TCO) System, and disseminate maneuver information throughout the battlespace.
- 1. MAGTF Software Baseline (MSBL). Decision support integrates information from the seven Command and Control (C2) functional areas and the support function. The information is tailored to support the users' specific needs. As a result of the MAGTF C4I Baseline subproject, an integrated migration strategy is being incorporated into the MAGTF software baseline, which will be common across and used by all MAGTF C4I programs.
- 2. The Tactical Command Operations (TCO) will provide systems to the command post which support Maneuver C2. Maneuver C2 is the executive layer of decision support that pulls and fuses information from other functional areas.
- 3. The Intelligence Analysis System (IAS) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence; it ensures that tactical intelligence is tailored to meet specific mission requirements. A Marine Expeditionary Force (MEF) IAS variant will also process signal intelligence. Funding for this program has moved to Project C2272 within this Program Element (PE).
- 4. Advanced Field Artillery Tactical Data System (AFATDS) will consist of fire support command and control software fielded on Marine Corps common hardware. AFATDS will provide the MAGTF with an automated ability to rapidly integrate all supporting arm assets into maneuver plans.
- 5. The Unit Operations Center (UOC) development efforts focus on: Cognitive Task Analysis (CTA); enhanced ergonomic physical design; evaluation of advanced multimedia hardware; integration and networking with advanced development communication systems; and battlefield visualization concepts. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield automation systems. UOC is a "system of systems" designed to optimize the positioning, interaction, and flow of information among the various staff agencies (G-2, G-3, Operations Directorate, etc) and their automated information systems and between the unit higher, adjacent or subordinate units or headquarters. The Marine Corps deploys Component/Joint Task Force (JTF/Marine Air Ground Task Force (MAGTF) command elements throughout the world to fulfill operational requirements, often in joint/combined forces arenas. The UOC is designed in garrison and tactical versions. The tactical version is called the Combat Operations Center (COC),
- which is an outgrowth of the integrated COC (ICOC), COC-Interim (COC(I)), and the Enhanced COC (ECOC) developments over the last two years. The garrison version is called the Command Center (CC). Funding for this program has been moved to Project C2273, PE 0206313 in FY04 and beyond.
- 6. GCCS Integrated Imagery and Intelligence (GCCS-I³) is a joint program that is designed to enhance the operational commanders' situation awareness and track management through the use of a standard set of integrated, linked tools, and services that maximize commonality and interoperability across the tactical, theater, and national communities. GCCS-I³ operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE).
- 7. The Data Automated Communications Terminal (DACT) will extend situational awareness to echelons below the battalion level within the Marine Corps. The DACT will receive, store, retrieve, create, modify, transmit and display map overlays, operational messages/reports, and position information via tactical radios, networks, and/or wire lines. A phased approach for full functionality fielding consists of harware/software upgrades and enhancements that allow interoperability with other C4I systems.
- 8. Marine Corps Training, Exercise, and Employment Plan (MCTEEP) is a Windows-based, Marine Corps developed scheduling tool, identified in the Commandant's Planning Guidance (CPG) to standardize the "TEEP" process. MCTEEP software was first fielded in July 1995 to every G-3/S-3 in the operating forces. Funding for this program has moved to Project C2906 within this PE in FY04 and beyond.
- 9. Single Integrated Air Picture (SIAP) is the product of fused, common, continual, coherent, unambiguous tracks of airborne objects of interest withing the surveillance area. The SIAP Systems Engineer Task Force is an ad hoc Joint effort to investigate, research and produce the most common effective means for producing a SIAP. Funding for this program has been moved to Project C2273 in FY04 and beyond.

EXHI	BIT R-2a, RDT&E Project Justifi	cation		DATE:	February 200
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	UMBER AND NAME	PROJECT N	IUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corp	s Communications Sys	C2270 Com	mand Post Systems	
U) B. ACCOMPLISHMENTS/ PLANNED PROG		•		•	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.060	0.000	0.000	0.000	
RDT&E Articles Qty	-				
TCO: Develop and test new Client Software		- 1			
<u>'</u>	FY 2002	FY 2003	FY 2004	FY 2005	_
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.518	0.150	0.160	0.170	
RDT&E Articles Qty	0.518	0.150	0.100	0.170	_
TCO: Program management and engineering	ng cupport				
	= '''				_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.314	0.180	0.195	-
RDT&E Articles Qty	1 180 14 0 1				_
TCO: Server testing and integration to deve					_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	4
Accomplishment/Effort Subtotal Cost	0.000	0.160	0.125	0.130	≟
RDT&E Articles Qty					
TCO: Integrate software changes into new s					_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.334	0.373	0.288	
RDT&E Articles Qty					
TCO: Testing and validations of advanced of					<u></u>
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.899	0.376	0.000	0.000	
RDT&E Articles Qty					
IAS MOD: Critical improvements to GCCS-I		or USMC requirements.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.089	0.000	0.000	0.000	
RDT&E Articles Qty					
IAS MOD: Support of integration facility.					_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	_
Accomplishment/Effort Subtotal Cost	0.381	0.000	0.000	0.000	_
RDT&E Articles Qty					
IAS MOD: Interoperabilty assessments and	software improvements .				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.312	0.000	0.000	
RDT&E Articles Qty					
IAS MOD: Software modifications to suppor	t USMC joint interoperability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.000	0.000	
RDT&E Articles Qty					
IAS MOD: Perform IOS Client Hardware Tra	ade Study.	<u> </u>			_
	FY 2002	FY 2003	FY 2004	FY 2005	7
COST (\$ in Millions)					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	1.255	1.350	1.800	1.850	

EXHIB	BIT R-2a, RDT&E Project Justifi	cation		DATE:	February 200
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	UMBER AND NAME	PROJECT N	UMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corp			mand Post Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.451	0.425	0.460	0.475	
RDT&E Articles Qty					
MAGTF C4I BASELINE: Program Managem	ent Support.				ı
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.671	0.350	0.375	0.375	
RDT&E Articles Qty					
MAGTF C4I BASELINE: Conduct disciplined	risk management, requirements	s tracking and systems engine	eering and analysis effo	orts.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	2.118	1.387	1.920	1.534	
RDT&E Articles Qty					
MAGTF C4I BASELINE: Development of MS	SBL Client in MS Windows enviro	onment (C2PC).			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.030	0.750	0.350	0.750	
RDT&E Articles Qtv	1.000	5 50	3.330		
MAGTF C4I BASELINE: Development of WI	IN NT Fire Support, Force Protect	ction, and communications cli	ents.		ı
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.000	1.300	1.166	0.850	
RDT&E Articles Qty					
MAGTF C4I BASELINE: Development of clie	ent for foot mobile Marines in Wil	ndows CE environment per u	ser requested improver	nents.	ı
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.575	0.000	0.000	0.000	
RDT&E Articles Qty	0.0.0	0.000	0.000	0.000	
AFATDS: Final development and testing of A Increase software effectiveness with, and in suppor	t of Marine Corps fire support sy	stems.		•	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
		0.812	0.000	0.000	
Accomplishment/Effort Subtotal Cost	0.650	0.812	0.000	0.000	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty					
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AFATDS: Development of AFATDS V7 softw with Marine Corps fire support systems (including T factors interface to provide simple and familiar view	vare. Simplify human factors inte Towed Artillery Digitization.) Enha	rface to allow easier initial an ance air mission processing o	d sustainment training. capabilities of system.	Increase functionality Further enhance human	
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Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AFATDS: Development of AFATDS V7 softw with Marine Corps fire support systems (including T factors interface to provide simple and familiar view COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AFATDS: Research and testing of new hards COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AFATDS Program management and engineering of the cost COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AFATDS Program management and engineering of the cost COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	vare. Simplify human factors interowed Artillery Digitization.) Enhance to users. FY 2002 0.400 ware platform for system. Enhance FY 2002 0.000 support. FY 2002 1.463	rface to allow easier initial and ance air mission processing of FY 2003 0.663 cements. FY 2003 0.000 FY 2003 1.528	d sustainment training. apabilities of system. I FY 2004 0.000 FY 2004 0.558 FY 2004 0.043	Increase functionality Further enhance human FY 2005 0.000 FY 2005 0.203 FY 2005 0.000	

EXHIBI	T R-2a, RDT&E Project Justif	ication		DATE:	February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	IUMBER AND NAME	PROJECT N	IUMBER AND NAME	1 051 441 7 2000
RDT&E, N /BA-7 Operational Sys Dev		s Communications Sys		mand Post Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.090	0.612	0.000	0.000	
RDT&E Articles Qty					
UOC: Operational Testing.		<u> </u>			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	1.640	0.850	0.000	0.000	
RDT&E Articles Qtv	1.040	0.830	0.000	0.000	
UOC: Program Management support. Fundir	ng for this program has been mo	oved to Project C2273 in PE 0	206313 in FV04 and h	evond	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.807	0.000	0.000	0.000	_
RDT&E Articles Qty	0.807	0.000	0.000	0.000	-
DACT: Dismounted DACT Prototype develop	ment and testing	l l			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.946	0.000	0.000	0.000	\dashv
RDT&E Articles Qty	0.340	0.000	0.000	0.000	-
DACT: Dismounted DACT Security Accredida	tion Develop software recover	v solution			_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.537	0.989	0.692	_
RDT&E Articles Qty	0.000	0.557	0.303	0.092	-
DACT: Dismounted DACT Software developed	nont				_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.100	0.100	
RDT&E Articles Qty	0.000	0.100	0.100	0.100	
DACT: Dismounted DACT FMF test support.		L L			_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.100	0.156	
RDT&E Articles Qty	3.000	0.100	000	000	
DACT: Dismounted DACT Program Management	Support	l I			_1
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.040	0.152	0.000	0.000	
RDT&E Articles Qty	5.5.5				7
DACT: Prototype/Internal SAASM GPS develo	pment.				_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.060	0.212	0.000	0.000	7
RDT&E Articles Qty			*		7
DACT: Internal 188-220 modem development	t.				_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	2.522	0.000	0.000	1
RDT&E Articles Qty			*****		7
DACT: Development, integration, testing and t	ielding of the Tank and DACT	Vehicle Mount.			_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
accomplishment/Effort Subtotal Cost	0.000	0.000	0.372	0.212	7
RDT&E Articles Qty	0.000	0.000		Ų.E.I.E.	7
DACT: Dismounted DACT Technology Inserti	on (Wireless comms).	l l			_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
COST (2 IU MIIIIOUS)					_
Accomplishment/Effort Subtotal Cost	0.171	0.000	0.000	0.000	

Operational Summary (OpSum) Templates for enhanced Data Entry and 3) Implementation in MCDMT of Common Marine Corps Data Elements.

	-2a, RDT&E Pro	ject Justifica	ation				DATE:	
A DDD ODDIATION/DUDOET, A OTIV/ITV		. = =	ADED AND		DD0 1507		February 2003	
APPROPRIATION/BUDGET ACTIVITY			MBER AND N			NUMBER AND I		
RDT&E, N /BA-7 Operational Sys Dev COST (\$ in Millions)	0206313M M FY 20		FY 200		FY 2004 FY			
Accomplishment/Effort Subtotal Cost	0.15		0.000		0.000	FY 20 0.00		
RDT&E Articles Qty	0.13		0.000	'	0.000	0.00	•	
MCTEEP: Program management support.	!	l .		I				
COST (\$ in Millions)	FY 20	102	FY 200	13	FY 2004	FY 20	105	
Accomplishment/Effort Subtotal Cost	0.00		0.338		0.019	0.00		
RDT&E Articles Qty	1 0.00		0.000		0.0.0	0.00		
MCTEEP: Development, integration, testing and prospective S/W modifications include; 1) incremental udata sorting, correlation and filtering capabilities to furth licensed data-base management system (DBMS) to a D	pgrades to accor er facilitate rapid	mplish progre responses to	ssively web er complex info	nabling higher	levels of DII / COE co	mpliance, 2) in		
COST (\$ in Millions)	FY 20	002	FY 200)3	FY 2004	FY 20	005	
Accomplishment/Effort Subtotal Cost	0.00		2.335		0.000	0.00		
RDT&E Articles Qty								
SIAPS: Implement JROC approved Block 0 char	ges in the TAOM	1.						
COST (\$ in Millions)	FY 20		FY 200		FY 2004	FY 20		
Accomplishment/Effort Subtotal Cost	0.00	0	8.783	}	0.000	0.00	0	
(U) PROJECT CHANGE SUMMARY:	FY 2002	FY 2003	FY 2004	FY 2005				
(U) PROJECT CHANGE SUMMARY: (U) FY 2003 President's Budget:	FY 2002 24.755	FY 2003 29.594	FY 2004 22.510	FY 2005 19.554				
` '								
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions								
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases	24.755 -0.066	29.594	22.510 0.620	19.554 -0.282				
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings	24.755 -0.066 0.853	29.594	22.510	19.554				
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer	24.755 -0.066 0.853 -0.387	29.594	22.510 0.620 -14.044	-0.282 -11.315				
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment	24.755 -0.066 0.853 -0.387 -0.302	29.594	22.510 0.620 -14.044 0.004	-0.282 -11.315 0.023				
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional Program Reductions (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer	24.755 -0.066 0.853 -0.387	29.594	22.510 0.620 -14.044	-0.282 -11.315				

EXHIBIT F	R-2a, RDT&E Pro	ject Justifica	ation					DATE:		
									February 2003	3
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NU	MBER AND N	AME		PROJECT NU				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys					C2270 Comm	and Post Sy	/stems		
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI# 463100 TCO	0.550	0.000	0.391	0.391	0.191	0.390	0.390	0.190	Continuing	Continuing
PMC BLI# 474900 IAS MOD	1.570	1.315	1.347	1.354	1.375	1.398	1.445	1.474	Continuing	Continuing
PMC BLI# 463100 AFATDS	2.609	0.000	0.674	0.173	4.234	8.141	8.982	3.296	Continuing	Continuing
PMC BLI# 463100 UOC	0.000	22.518	0.015	0.000	0.000	0.000	0.000	0.000	0.000	22.533
PMC BLI# 419000 UOC	0.000	0.000	29.225	36.045	41.292	124.663	151.987	147.525	Continuing	Continuing
PMC BLI# 463100 DACT	13.862	6.366	4.183	0.300	0.300	0.200	0.300	0.300	Continuing	Continuing

(U) Related RDT&E:

- (U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II) Defense.
- (U) Navy Tactical Flag Communication and Control System.

(U) D. ACQUISITION STRATEGY:

- (U) TCO: Contracting is via General Services Administration schedules with various vendors and is for software maintenance and COTS evaluation and integration. Performance base reviews are conducted quarterly by the PMO.
- (U) MSBL: Funds applied to the NGIT contract through ITM2K are on a Time and Materials Contract. Funds to NGIT, Orlando, FL for the SPEED contract are on a Firm Fixed Price Contract; SPAWAR Systems Center, Charleston. Fire Support client software development performed through Cost Plus Fixed Fee contract with Raytheon through Army CECOM, Ft. Monmouth, NJ.
- (U) AFATDS: AFATDS is a Cost Plus Award Fee contract through Army CECOM, Ft. Monmouth, N. J. R&D efforts will be a combined effort between the software developer (Raytheon), the Army PM and the USMC of software enhancements for the next planned versions of AFATDS (V6.3.2 and V7).
- (U) DACT: The Program develops software and hardware for two operational domains. The mounted DACT is a Command Control Situational Awareness device that will be installed in various tactical vehicles at the battalion and below levels with a special vehicle mounting kit, also being developed.
- (U) MCTEEP: Competitively award a cost plus fixed fee contract in 4th Qtr 02. R&D component of this contract will be to enhance existing MCTEEP S/W version 4.0 or to further develop the capabilities of the MCTEEP variant, the M. C. Database Management Tool.
- (U) IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment.
- (U) SIAP: Systems Engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future C4ISR systems.
- (U) GCCS I3: The acquisition of components (software/hardware) for the GCCS I 3 initiative will maximize the use of existing COTS, GOTS, NDI, and GFE equipment. The GCCS I3 initiative will be accomplished in collaboration with Millennium Technologies Corporation and Computer Science Corportation. Maintenance support will be managed by MARCORLOGBASES and those contractors listed above. This strategy accomplishes several goals: procure and field equipment effectively and efficiently, reduce logistics support, and reduce operational maintenance support.
- (U) UOC: The UOC COC is a Competitively Awarded Contract (cost type) for design and FP production options.

		UNCLASSIFIED		
	EXH	IBIT R-2a, RDT&E Project Justification		DATE:
				February 2003
	PRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AN	
	, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post	Systems
•	or Performers:			
	CAL COMBAT OPERATIONS (TCO)			
FY 02 01.	MARCORSYSCOM (MCSC), QUANTIC	O, VA. Provide funds to NORTHROP GRUMMAN INFORMATION	TECHNOLOGY, Quantico, VA fo	or Testing and Validation of software. Dec
FY 03	SPAWAR, CHARLESTON, S.C. Provide	e funds to EMA, INC, Charleston, S.C. for Testing and Validation of	Advanced Server Concepts. D	ec 02.
FY 04	SPAWAR, CHARLESTON, S.C. Provide system, and perform testing. Dec 03.	e funds to EMA, INC, Charleston, S.C. To develop additional funct	ional capabilities, integrate softw	rare changes into new
FY 05	SPAWAR, CHARLESTON, S.C. Provide into new system, and perform testing.	e funds to EMA, INC, Charleston, S.C. for Testing and Validation o Dec 04.	f new workstation concept, integ	rate software changes
MAGTE	SOFTWARE BASELINE (MSBL)			
FY 02	NORTHROP GRUMMAN INFORMATIO	N TECHNOLOGY (NGIT), San Diego, CA. Software development:	C2PC and C2CE.	
	SPACE AND NAVAL WARFARE SYST	EMS CENTER (SPAWAR), Charleston, SC. Software integration,	ouilding, testing and fielding MSE	BL.
	RAYTHEON (via Army CECOM) Ft. Mor	nmouth, NJ. Fire Support Client software development, testing and	I integration.	
FY 03	NORTHROP GRUMMAN INFORMATIO	N TECHNOLOGY (NGIT), San Diego, CA. Software development:	C2PC and C2CE. Estimated of	ontract award date: Dec 03.
	SPACE AND NAVAL WARFARE SYST award date, Dec FY 03.	EMS CENTER (SPAWAR) Charleston, SC. Software integration,	ouilding, testing and fielding MSI	BL. Estimated contract
		nmouth, NJ. Fire Support client software development, testing and		
FY 04		N TECHNOLOGY (NGIT), San Diego, CA. Software development		
		EMS CENTER (SPAWAR) Charleston, SC. Software integration, b	uilding, testing and fielding MSB	L. Estimated award
	date Dec FY 04.	and the N.I. Elec Overage disease of the second second second second	interpolities. Entire to discount of	d-4- D 5V 04
FY 05		nmouth, NJ. Fire Support client software development, testing, and N TECHNOLOGY (NGIT), San Diego, CA. Software development:		
F1 05		EMS CENTER (SPAWAR) Charleston, SC. Software integration, I		
		th, NJ. Fire Support Client software development, testing and integration,		
4 DV 4 N	ICED FIELD ARTITLEY TACTICAL DATA			
FY 03		Develop and test software. Award Dec FY03.		
FY 03	MCOTEA, Quantico VA. Test V6.3.2 so			
FY 03	CEOS. TBD. Program Support. Dec F			
FY 04	TBD. Program Support.			
FY 05	TBD. Program Support.			
DATA A	AUTOMATED COMMERCIAL TERMINAL	(DACT)		
FY 03		•		
FY 04	NORTHROP GRUMMAN, Sotfware Dev			
FY 04	TECHNOLOGY INSERTION, Wireless of			
FY 05	NORTHROP GRUMMAN, Software Dev	elopment, Jan 04.		

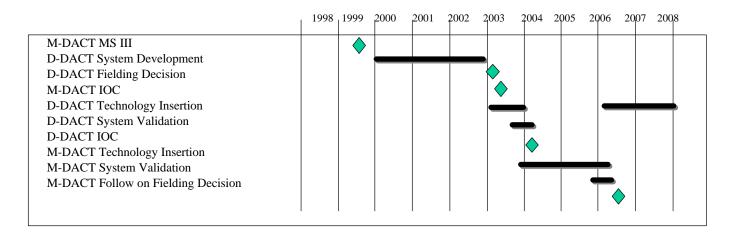
	EXHIBIT R	-2a, RDT&E Project Justification		DATE:
ΔPPRO	PRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER ANI	February 2003
	, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post S	
E. Majo	or Performers (Continued):			
	E CORPS TRAINING EXERCISE EMPLOYMEN STANLEY ASSOCIATES, INC., Woodbridge, \	T PLAN (MCTEEP) /A. Development of new software enhancements. Aug 02.		
FY 03	STANLEY ASSOCIATES, INC., Woodbridge, \capabilities of MCTEEP. Nov 02.	/A. Development, integration, testing and fielding of selected	MCTEEP Software upgrades to	enhance the
INTELL FY 02 FY 03	NSWC, CRANE, IN. Critical Improvements to C	rare to USMC Requirements. bility assessment and in support of integration facility. GCCS I3 software for program requirements and software modeperability, perform IOS Client and Server Trade Study.	ds.	
	and hardware. NAVY SYSTEMS MANAGEMENT ACTIVITY (rogram Engineering Services and support to define, develop a WSMA), Arlington, VA. Funds provided for Engineering and Fogram Engineering Services and Support to define, develop a	rogram Management and tech	nical analysis support.
UNIT OI FY 02 FY 02	PERATIONS CENTER (UOC) NORTHROP GRUMMAN, Stafford, VA, Progra GENERAL DYNAMICS, Scottsdale, AZ. State	am support, Oct 01. ment of Objectives for Combat Operations Center and Engine	eering Manufacture Developme	nt. May 02.

Exhibit R-3 Cost Ana	lysis							DATE:			Feb	ruary 2003		
APPROPRIATION/BU		IVITY PROGRAM ELEMENT						PROJEC	T NUME	BER AND	NAME			
RDT&E, N /BA-7 Ope			Commu	nication	s Sys					d Post Sy				
, ,	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 02	Award		Award	FY 04	Award		Award	Cost to	Total	Value of
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
UOC	WR	SPAWAR	4.891	1.225		0.702	01/03					0.000		
UOC	WR	JSC		0.065								0.000		
UOC	WR	MCSC, Quantico, VA	1.412	0.657	01/02	0.320	01/03					0.000		
UOC	RCP	General Dynamics, Scottsdale, AZ		7.000	03/02	0.706	01/03					0.000	7.706	
TCO	RCP	MCSC, Quantico, VA		0.518	02/02							0.000	0.518	
TCO	WR	SPAWAR. Charleston, SC	1.270			0.808		0.678	12/03	0.613	12/04	1.921	5.290	
MAGTF C4I BASELINE	RCP	SSC, Charleston, SC	6.255	1.255	02/02	1.350	12/02	1.804	12/03	1.667	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Raytheon, Indianapolis, IN	2.450	0.600	02/02	0.750	12/02	0.350	12/03	0.750	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, San Diego, CA	9.123	2.118	02/02	1.237	12/02	1.766	12/03	1.542	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	4.350	1.000	02/02	1.300	12/02	1.166	12/03	0.850	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Orlando, FL	1.530	0.430	04/02	0.000		0.000		0.000		Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	1.692	0.326	10/02	0.425	12/02	0.460	12/03	0.475	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	WR	MCTSSA, Camp Pendleton, CA	0.600	0.125	12/02	0.150	12/02	0.150	12/03	0.175	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	1.771	0.671	12/02	0.350	12/02	0.375	12/03	0.375	12/04	Cont.	Cont.	
AFATDS	MIPR	USA, Ft. Sill, OK	1.562	0.090	02/02	0.175	12/02					Cont.	Cont.	
AFATDS	C/FFP	CECOM, Ft. Monmouth,NJ	1.218	0.640	02/02	0.479	12/02	0.558	12/03	0.203	12/04	Cont.	Cont.	
AFATDS	CPFF/MIPR	USA, CECOM	1.445	0.525	02/02	0.451	12/02					Cont.	Cont.	
AFATDS	WR	MCSC, Quantico, VA		0.020	02/02	0.020	12/02					Cont.	Cont.	
AFATDS	CPFF/MIPR	CECOM, Ft. Monmouth,NJ	0.675	0.350	02/02	0.350	12/02					Cont.	Cont.	
GCCS-13	WR	MTC		0.750	08/02	1.000	11/02					0.000	1.750	
GCCS-13	MIPR	NSA				0.032	12/02					0.000	0.032	
GCCS-13	WR	AIS				0.100	11/02					0.000	0.100	
GCCS-13	WR	MTC				0.396	04/02	0.043	12/03			0.000	0.396	
DACT	TM	Raytheon, Fort Wayne, IN	0.950	0.946	02/02							Cont.	Cont.	
DACT	RCP	SSC, Charleston, SC	0.882	0.807	02/02							Cont.	Cont.	
DACT	TM/MIRP	Booz-Allen, Ft. Monmouth, NJ	1.185	0.060	02/02	0.537	12/02	0.220	11/03	0.368	11/04	Cont.	Cont.	
DACT	TM/MIPR	Booz-Allen, Ft. Monmouth, NJ	0.344	0.040	02/02	0.152	12/02	0.152	11/03			Cont.	Cont.	
DACT	FFP	NGIT, San Diego CA	1.793			0.212	11/02	0.989	11/03	0.592	11/04	Cont.	Cont.	
MCTEEP	C/CPFF	Northrop Grumman, Aquia, VA		0.157	02/02	0.000						0.000	0.157	
MCTEEP	C/CPFF	Stanley Assoc		0.171	08/02							0.000	0.171	
MCTEEP	C/CPFF	TBD				0.338	11/02	0.019	11/03			0.000	0.357	
SBIR												0.000	0.000	
Subtotal Product Dev	/		45.398	20.546		12.340		8.730		7.610		Cont.	Cont.	
Remarks:														

Exhibit R-3 Cost An	nalysis								DATE:			Feb	ruary 2003		
APPROPRIATION/B	BUDGET ACT	IVITY	PROGRAM ELEMENT						PROJEC	CT NUME	BER AND	NAME	-		
RDT&E, N /BA-7 Op	erational Sys	s Dev	0206313M Marine Cor	ps Commu	nication	s Sys			C2270 C	omman	d Post Sy	/stems			
	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Cost Categories	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
	,				-				1000		1				-
DACT	CFFP	Program Support	, (TBD)	0.300			0.100	11/02	0.100	11/03	0.100	11/04	Cont.	Cont	
DACT INTEGRATION	TBD	TBD	,				2.522	12/02					Cont.	Cont	
SIAP	RCP	CECOM, FT. MO	NMOUTH, NJ				1.200	02/03					0.000	1.200	
SIAP	RCP	MCSC, QUANTIO					5.883	02/03					0.000	5.883	3
SIAP	RCP	GSA, BREMERT	ON, WA				1.700	02/03					0.000	1.700	
SIAP	RCP	MCSC, QUANTIO	CO, VA				2.335	02/03					0.000	2.335	
GCCS-I3	RCP	NSWC, CRA			0.070	03/02							0.000		
GCCS-I3	RCP	AIS			0.072	03/02							0.000	0.072	
Subtotal Support				0.300	0.142		13.740		0.100		0.100		Cont.	Cont	
Remarks:	•	•		•		•			-1				•		
	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05		Cost to	Total	Value of
Cost Categories	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
TCO	RCP	MCTSSA, Cam	n Dadlta CA	0.201	0.060	02/02	0.150		0.160		0.170		0.000		
IAS Mod	WR	NAVSEA, Cran		0.201			0.130		0.100	02/04	0.170	02/03	0.300		
IAS Mod	RCP	MCTSSA	С	0.147	0.089		0.000						0.100		
IAS Mod	RCP	SPAWAR, Cha	rlocton	0.147			0.676						0.100		
MSBL	RCP	MCOTEA, Qua		1.683		02/02	0.070	11/02					Cont.	Cont	
DACT	MIPR	,	np Pendleton (I MEF)	0.300			0.100	12/02	0.100	12/03	0.100	12/04	Cont.	Cont	•
UOC	RCP	MCOTEA, Q		0.500	0.090	12/02	0.100	12/02	0.100	12/03	0.100	12/04	Cont.	COITE	•
Subtotal T&E	IXCI	WOOTLA, Q	uantico, vA	2.840			1.238		0.260		0.270		Cont.	Cont	
Remarks:		1		2.040	1.518	1	1.230	'	0.200		0.270	'	Cont.	Cont	• [
	<u> </u>				ı		ı				1		1	1	I= .
	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05	_		Target
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Cost Categories	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
UOC	IDIQ	Logicon		3.396	1.640	01/02	0.525	01/03	0.000				0.000	5.561	
UOC	FFP	Mevatec.		0.064			0.100		0.000				0.000		
GCCS-I3	RCP	NSMA, ARLI	NGTON VA	0.004	0.571		0.100	01/03	0.000				0.000	0.555	1
Subtotal Manageme		INOWA, AINE	NOTON, VA	3.460			0.625		0.000				0.000	6.731	
Remarks:	CIII	-		0.400	2.040		0.020	'	0.000		ı	I	0.000	0.731	
ivemarks.															
Total Cost					24.853		27.943							Cont	

E	XHIBIT R-4/4a, Schedule Profile/Detail	DATE:	
		Febr	uary 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems	

DACT Macro Program Schedule

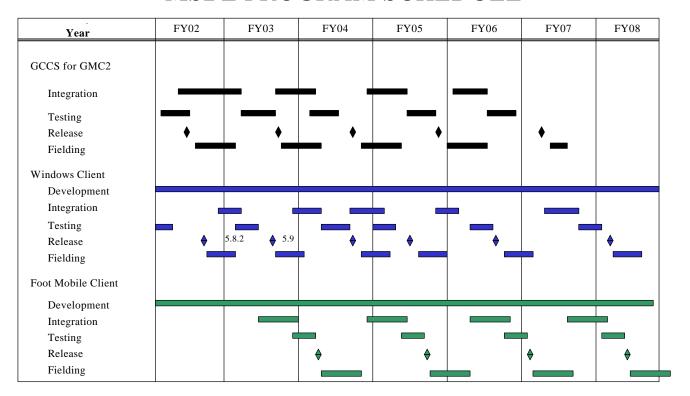


Program Funding Summary (APPN, BLI #. NOMEN)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N C2270	1.853	3.623	1.561	1.160	0.756	0.664	0.583	0.599	Continuing	Continuing
(U) PMC BLI# 463100, DACT	13.862	6.366	4.183	0.300	0.300	0.200	0.300	0.300	Continuing	Continuing

PROPRIATION/BUDGET ACTIVITY	FYHIRIT R-4/4								
PROPRIATION/BUDGET ACTIVITY		a, Schedule Pr	ofile/Detail				DATE:		
PROPRIATION/BUDGET ACTIVITY								Februa	ry 2003
	PROGRAM	ELEMENT NUN	IBER AND NA	AME	PROJECT N	UMBER AND I	NAME		
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Γ&E, N /BA-7 Operational Sys Dev	U2U6313WI I	Marine Corps (ommunicatio	ons Sys	C2270 Com	mand Post Sys	stems		
DACT SCHEDULE DETAI	 II	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
D-DACT SYSTEM DEVELOPM		1Q004Q02	11 2003	11 2004	11 2003	11 2000	11 2007	11 2000	11 2009
D-DACT FIELDING DECISION		1000-4002	1Q						
M-DACT IOC	<u>'</u>		2Q						
D-DACT TECHNOLOGY INSE	RTION		1Q 4Q			1Q06	4Q	07	
D-DACT SYSTEM VALIDATIO	N		3Q03	1Q04					
D-DACT IOC				1Q04					
M-DACT TECHNOLOGY INSE			40	203		1Q0	6		
M-DACT SYSTEM VALIDATIO	N					1Q 2Q			
M-DACT FOLLOW ON FIELDI	NG DECISION					2Q			
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	EXHIBIT R-4/4a, Schedule Profile/Detail		DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Sys	stems

MSBL PROGRAM SCHEDULE



Program Funding Summary (APPN RI I # NOMEN)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(APPN, BLI #, NOMEN) (U) RDT&E,N	6.525	5.562	6.071	5.834	5.699	5.811	5.917	6.038	Continuing	Continuing

		EXHIBIT R-4/	ła, Schedule P	rofile/Detail				DATE:	Fahrus	ry 2003
APPROPE	RIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT NU	MBER AND N	AME	PROJECT NU	JMBER AND I	NAME	rebiua	ii y 2003
RDT&E, N	/BA-7 Operational Sys Dev	0206313M	Marine Corps	Communicati	ons Sys	C2270 Comm	nand Post Sys	stems		
	MSBL SCHEDULE DETAI	IL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	GCCS FOR GMC2 SOFTWAR	E RELEASE	3.3 2Q	(3.6) 3Q	(4.X) 3Q					
	C2PC SOFTWARE RELEASE	S	(5.8.2) 3Q	(5.9.0) 3Q	(5.9.1) 3Q	(5.9.2) 2Q				
	C2CE SOFTWARE RELEASE	S			1Q	3Q				
				1						
				1						

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EXHIBIT F	R-2a, RDT&E Pr	oject Justifica	tion			DATE:		Fab	2	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		MENT NUMBER		on Systems		PROJECT NUM C2272 Intelli			<u> </u>	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Cost To Complete	Total Program
Project Cost	16.862	18.352	17.616	32.424	27.747	21.017	17.465	15.565	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Intelligence Command and Control (C2) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems below collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.
- 1. Tactical Exploitation of National Capabilities (TENCAP) is a program designed to enhance the ability of tactical Marine Corps forces to exploit the capabilities of national intelligence-gathering systems. Congressionally directed, it requires close liaison with the intelligence community and involves complex and highly-sensitive activities.
- 2. The Topographic Production Capability (TPC) is an advanced Geospatial Information System, which employs commercial hardware and software to provide the framework data for the common battlefield visualization by producing geospatial intelligence products in digital format and limited hardcopy map products.
- 3. The Joint Surveillance Target Attack Radar (JSTARS) connectivity program will develop software which will allow the JSTARS Moving Target Indicator (MTI), Fixed Target Indication (FTI) and Synthetic Aperture Radar (SAR) Data to be passed from the JSTARS Common Ground Station (CGS) to lower echelons within the MAGTF. Once the Connectivity Software has been developed, a requirement for a JSTARS CGS software upgrade is anticipated under Joint Program Office Pre-Planned Product Improvement (P3I) initiative.
- 4. The Coastal Battlefield Reconnaissance and Analysis (COBRA) system is a passive multispectral sensor system capable of operating in a Manned Aircraft and an Unmanned Aerial Vehicle (UAV). Imagery recorded on the UAV or disseminated via data link is analyzed by the COBRA ground station. Ground station algorithm processing provides near real-time automatic minefield detection with Differential Global Positioning System (DGPS) location accuracy.
- 5. The JSIPS-TEG is a highly mobile imagery ground station designed to receive and process tactical imagery in support of the MEF/MAGTF commander. This Common Imagery Ground Surface System (CIGSS) is an integral component of the USMC Distributed Common Ground Station (DCGS) architecture that enables the MEF/MAGTF commander to remain interoperable with other Joint and USMC C4I systems. The system provides the capability to receive, process, store, exploit (to include PGM targeting support), and disseminate national theater, and tactical imagery, as well as providing interoperability with the Army's Tactical Exploitation System (TES), the Navy's Joint Services Imagery Processing System Navy (JSIPS-N), and the Air Force Intelligence Systems Reconnaissance Manager (ISRM) systems during joint engagements.
- 6. The Counterintelligence (CI) and Human Intelligence (HUMINT) Equipment Program (CIHEP) is an intelligence collection, analysis and reporting suite of equipment, employing commercial-off-the-shelf (COTS) and non-developmental items (NDI) of equipment and software. It will produce digital soft copy as well as hard copy CI, Interrogator-Translator (IT) and HUMINT information reports and images for the Marine Air Ground Task Force (MAGTF) or Joint Force (JTF) Commander. CIHEP will allow the electronic storage and dissemination of HUMINT information throughout the command, as well as for low volume traditional hard copy dissemination.
- 7. Team Portable Collection System Multi-Platform Capable (TPCS-MPC) The TPCS- MPC will provide the MAGTF commander with a modular and scaleable carry on/off suite of equipment capable of conducting Signals Intelligence (SIGINT) operations onboard organic non-dedicated Marine Corps air, ground, and water borne platforms. The TPCS-MPC will be highly modular, mission configurable, multi-platform system incorporating plug-and-play technologies. The system will provide state-of-the-art, versatile air/ground/water borne SIGINT and EW support to the MAGTF through the use of lightweight, flexible mission equipment suites capable of detecting, identifying, locating, and exploiting current and emerging communications technologies, intercepting non-communication signals, and improving the system's geolocation accuracy.

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EXHIBIT R	-2a, RDT&E Project Justification	DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems

- 8. Tactical Remote Sensor System (TRSS-PIP) The TRSS provides the Marine Air Ground Task Force (MAGTF) commander with an organic variety of sensors that will cover his Area of Responsibility for months at a time by allowing the commander to autonomously conduct unattended, semi-covert, ground surveillance of distant areas of the battlefield. Using a network of reliable passive sensors, these multiple systems enhance the commanders' ability to cover gaps in the overall intelligence collection effort, thus reducing the need to employ costly weapons systems. The sensor systems also reduces the requirement to employ Marines behind enemy lines for extended periods of time.
- 9. Manpack Secondary Imagery Dissemination System (MP SIDS) is a Commercial-Off-The-Shelf (COTS) refresh of a fielded system. MP SIDS consists of one (1) Base Station and three (3) Portable Outstations. It is used by the Reconnaissance Marines to electronically receive, process, reproduce, and disseminate near-real-time imagery throughout the battlefield to support all echelons of the MAGTF.
- 10. The Intelligence Analysis Systems (IAS) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence; it ensures that tactical intelligence is tailored to meet specific mission requirements. A Marine Expeditionary Force (MEF) IAS variant will also process signal intelligence.
- 11. Global Command and Control System Integrated Imagery and Intelligence (GCCS I3) is a joint program that is designed to enhance the operational Commander's situation awareness and track management through the use of a standard set of integrated, linked tools and services that maximize commonality and interoperability across the tactical theater, and national communities. GCCS-I3 operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE).
- 12. Technical Control Analysis Center (TCAC). The primary mission of the TCAC is to provide the Radio Battalions (RadBn) with an automated Signals Intelligence (SIGINT) processing, analysis, and reporting capability. The TCAC system is designed to receive collected intelligence from tactical, theater and National level producers and provide a multi-source fused intelligence production capability to support the Marine Air Ground Task Force (MAGTF) commander via the Intelligence Analysis System (IAS), as well as the National Security Agency (NSA) and other National consumers.
- 13. Intelligence Broadcast Receiver (IBR) provides Marine tactical commanders access to National level Near Real-Time intelligence data provided over the Integrated Broadcast Service.

 IBR is employed across the MAGTF echelons through the following Host Systems; Intelligence Analysis System; Tactical Air Operations Center; Technical Control and Analysis Center; Tactical

 Air Command Center; Joint STARS Common Ground Station; Tactical Electronic Reconnaissance Processing and Evaluation System and the Mobile Electronic Warfare Support System.
- 14. Intelligence System Readiness (ISR) Program will provide timely and targeted solutions to better enable the MAGTF Commander to accomplish his mission by (1) injecting technology rapidly, and (2) conducting up-front testing and integration. The current Marine Corps Intelligence architecture encompasses dozens of systems, acquired over a span of decades, often with little regard for interoperability. Additionally, some systems have gaps in functionality and interoperability which, when balanced against rapid advancements in technology, bring those systems to the brink of obsolescence. The ISR Program enhances the Marine Corps Intelligence Architecture by mitigating operational shortfalls through Commerical-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) technology. In this way, ISR provides proof-of-concept prototypes and focused Research and Development (R&D) efforts to support the Marine Corps Intelligence Architecture and shorten the time required to fill gaps and field sytems. The ISR program Team also trains Marines to maximize new systems and capabilities.

15. FY02 DERF

TPCS - \$2.0M. Funds are for Software Development and Testing of the Digital Receiver Technology (DRT) and test and approval of Ultralife Lithium Battery. FY03 DERF Funds are listed under Project C9273.

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EXHIBI	T R-2a, RDT&E Project Justifica	tion	DATE:	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER A 0206313M Marine Corps C			February 200 BER AND NAME gence C2 Systems
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.031	0.030	0.031	0.035
RDT&E Articles Qty				
CIHEP: Engineering, Integration and	Technical support for technical ref	resh and update of program ha	rdware/software upgrade	es.
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.085	0.079	0.081	0.081
RDT&E Articles Qty		0.000		
CIHEP: Program Management Suppo	ort for the technical refresh and upo	date of program hardware/softv	vare upgrades.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.100	0.000	0.000	0.000
RDT&E Articles Qty				
COBRA: SD&D Contract, Northrup G	rumman, System Design.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.851	0.500	0.500	0.850
RDT&E Articles Qty				
COBRA: NAVSEA Technical and Cor	ntractual Support.	l e		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.120	0.100	0.000	0.200
RDT&E Articles Qty				
COBRA: NÁVAIR Technical Support,	Platform Integration Services	•		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.215	0.822	0.435	1.038
RDT&E Articles Qty				
COBRA: MCSC Program Support				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	4.440	2.040	0.000
RDT&E Articles Qty				
COBRA: SD&D Contract, Northgrup (Grumman, System Development, S	Spiral 1.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	7.645
RDT&E Articles Qty				
COBRA: SD&D Contract, Northgrup (Grumman, System Development, S	Spiral 2.		

RDT&E Articles Qty			UNCLASSIFIE)	
PROPERTATION BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME C2272 Intelligence C2 Systems C0057 (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005	EXHIB	IT R-2a, RDT&E Project Justific	ation	DATE:	
COST (\$ in Millions)		•			
COST (\$ in Millions)					
Accomplishment/Effort Subtotal Cost 0.000 0.000 1.521 1.533					
### RDT&E Articles Qty ### GCS-13: Operational system development. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this Program Element (PE). ### COST (\$ in Millions) ### COST (\$ in Millions) ### COST (\$ in Millions) ### PY 2002 ### COST (\$ in Millions) ### PY 2002 ### COST (\$ in Millions) ### PY 2002 ### COST (\$ in Millions) ### PY 2002 ### COST (\$ in Millions) ### PY 2002 ### COST (\$ in Millions) ### PY 2003 ### COST (\$ in Millions) ### PY 2004 ### PY 2005 ### Accomplishment/Elfort Subtotal Cost ### O.000 ###	(+				
CCS-13	•	0.000	0.000	1.521	1.533
COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.400 0.574 RDT&E Articles Qty IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.000 0.000 RDT&E Articles Qty IAS MOD: Support of integration facility. Funding for this effort in FY02 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.000 0.000 RDT&E Articles Qty IAS MOD: Joint interoperability assessment and documentation. Funding for this effort in FY02 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.000 0.000 RDT&E Articles Qty IAS MOD: Joint interoperability assessment and documentation. Funding for this effort in FY02 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.307 0.436 RDT&E Articles Qty IAS MOD: Software modifications to support USMC joint interoperability. Funding for this effort in FY03 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.000 0.000 RDT&E Articles Qty IAS MOD Kit. Perform trade study for the IOS server, MEF IAS client and IOW laptop. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 FY 2005 Accomplishment/Effort					
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.400 0.574	GCCS-I3: Operational system develo	opment. Funding for this effort in I	FY02 and FY03 is provided und	er Project C2270 of this	Program Element (PE).
IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this PE. COST (\$ in Millions)	COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this PE. COST (\$ in Millions)	Accomplishment/Effort Subtotal Cost				
IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this PE. COST (\$ in Millions)	RDT&E Articles Qty				
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COST (\$ in Millions)	RDT&E Articles Qty				
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Accomplishment/Effort Subtotal Cost 0.000 0.000 0.307 0.436		ssment and documentation. Fund	ing for this effort in FY02 is prov	vided under Project C227	0 of this PE.
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.307 0.436	COST (\$ in Millions)	EV 2002	EV 2003	EV 2004	EV 2005
RDT&E Articles Qty					
IAS MOD: Software modifications to support USMC joint interoperability. Funding for this effort in FY03 is provided under Project C2270 of this PE. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.200 0.000 RDT&E Articles Qty IAS MOD Kit. Perform trade study for the IOS server, MEF IAS client and IOW laptop. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.070 0.000 RDT&E Articles Qty IAS MOD Kit: Joint Tactical Terminal Integration. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.000 FY 2005 COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288		0.000	0.000	0.307	0.430
COST (\$ in Millions)		support USMC joint interoperabili	tv Funding for this effort in FY()3 is provided under Proi	ect C2270 of this PF
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.200 0.000 RDT&E Articles Qty IAS MOD Kit. Perform trade study for the IOS server, MEF IAS client and IOW laptop. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.070 0.000 RDT&E Articles Qty IAS MOD Kit: Joint Tactical Terminal Integration. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288		, .		•	
RDT&E Articles Qty					
IAS MOD Kit. Perform trade study for the IOS server, MEF IAS client and IOW laptop. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.070 0.000 RDT&E Articles Qty IAS MOD Kit: Joint Tactical Terminal Integration. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288		0.000	0.000	0.200	0.000
COST (\$ in Millions)	,				
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.070 0.000 RDT&E Articles Qty IAS MOD Kit: Joint Tactical Terminal Integration. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288	IAS MOD Kit. Perform trade study for	or the IOS server, MEF IAS client	and IOW laptop.		
RDT&E Articles Qty	COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
IAS MOD Kit: Joint Tactical Terminal Integration. COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288	Accomplishment/Effort Subtotal Cost			0.070	
COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288	RDT&E Articles Qty				
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288	IAS MOD Kit: Joint Tactical Terminal	Integration.			
Accomplishment/Effort Subtotal Cost 0.000 0.000 0.277 0.288	COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
	Accomplishment/Effort Subtotal Cost		1		
		0.000	0.000	VI2.11	0.200

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EXHIBI	T R-2a, RDT&E Project Justific	ation	DATE:	February 20				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER 0206313M Marine Corps			PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.854	0.722				
RDT&E Articles Qty								
IBR: Technical assessment of implen	nentation of the Integrated Broado	cast Service Common Mess	age Format into Marine Corp	s Host Systems.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.340				
RDT&E Articles Qty								
ISR: Program Management and Tech	nnical Support for the ISR Program	n.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.420				
RDT&E Articles Qty								
ISR: Engineering Support for delivery	of new technology initiatives to the	he Operating Forces.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.308				
RDT&E Articles Qty								
ISR: System Engineering support for	the ISR Testing and Training Cer	nter.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.404	0.180	0.316	0.261				
RDT&E Articles Qty								
JSTARS: Engineering and technical sutilize JSTARS data.	support for development and integ	gration of connectivity softwa	are that would reside on exis	ting MAGTF systems and				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.250	0.000	0.000	0.000				
RDT&E Articles Qty								

EXHIBI	T R-2a, RDT&E Project Justific	ation	DATE:			
A DDD ODDIATION (DUDGET A OTIVITY	IDDOODAM ELEMENT NUMBER	A AND MANE	DDO IFOT NILINA	February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER 0206313M Marine Corps		PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.142	0.000	0.000	0.000		
RDT&E Articles Qtv						
JSTARS: Common Ground Moving T	arget Indication client testing.	<u>, </u>				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.185	0.000	0.000	0.000		
RDT&E Articles Qtv						
JSTARS: Joint Services Work Station	ns (JSWS) Field User Evaluation	(FUE).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.485	0.000	0.000		
RDT&E Articles Qty						
JSTARS: Integration of Surveillance (Common Data Link (SCDL) follow	v-on effort.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.340	0.000		
RDT&E Articles Qty						
JSTARS: Integration of MTES softwa	re upgrade into Common Ground	Station (CGS) architecture.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.488		
RDT&E Articles Qty						
JSTARS: Integration of emerging Mo	ving Target Indicator (MTI) senso	rs into JSTARS CGS software I	baseline.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	1.044	0.000	0.000	0.000		
RDT&E Articles Qty		11000				
JSIPS-TEG: Develop Full Operationa	l Capability; implement factory sy	stem for integration of required	software/hardware upgra	ides.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.560	0.485	0.400	0.355		
RDT&E Articles Qty						
JSIPS-TEG: Engineer and technical r	management support.	1				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.300	0.000	0.000	0.000		
RDT&E Articles Qtv						

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EXHIB	T R-2a, RDT&E Project Justifica	ation	DATE:		
			February 2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER			BER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps (gence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1.771	0.000	0.000	
RDT&E Articles Qty		1			
JSIPS-TEG : Development of upgrade collection platforms.	es to existing software baseline to	include the capability to receive	e and process emerging	airborne imagery sensor	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.815	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Development of Time S	ensitive Targeting (TST) interface	s within the common software b	oaseline.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.940	
RDT&E Articles Qty					
JSIPS-TEG: Development of sensor	cross-cueing interfaces withing the	e common software baseline.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.940	
RDT&E Articles Qty					
JSIPS-TEG: Development of man-po	ortable Common Data Link (CDL)	capability.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.146	0.147	
RDT&E Articles Qty					
MP SIDS: Engineering and technical	support for product development	of program hardware and softw	are refresh.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.064	0.055	
RDT&E Articles Qty					
MP SIDS: Program Management and	technical support for product dev	elopment of program hardware	and software refresh.		
8	FY 2002	FY 2003	FY 2004	FY 2005	
COST (\$ in Millions)		0.000	0.021	0.038	
COST (\$ in Millions)	0.000	0.000			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.000	0.000			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost			sh.		
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty			sh. FY 2004	FY 2005	
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty MP SIDS: Program Management and	d technical support for Technical a	and Evaluation of program refres		FY 2005 0.904	

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EXHIBIT	R-2a, RDT&E Project Justific	ation	DATE:			
			February 2003 PROJECT NUMBER AND NAME			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	· · · · · · · · · · · · · · · · · · ·		gence C2 Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	1.790	2.199	2.253	2.317		
RDT&E Articles Qty						
TENCAP: Program support and manage	gement; evaluate national intelliç	gence data systems for MAGTF	applicability.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.455	0.400	0.428	0.437		
RDT&E Articles Qty						
TENCAP: Technical assessments of e	merging national data dissemina	ation capabilities.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.458	0.000	0.000	0.000		
RDT&E Articles Qty	000	1.000	0.000			
capabilities. COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.145	0.148		
RDT&E Articles Qty						
TENCAP: Support operational planning	g to enhance operating force cap	pabilities to US national intellige	nce data within the MAG	TF C4I architecture.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.267	0.100	0.103		
RDT&E Articles Qty	33333	0.20				
TENCAP: Evaluate the utility of emerg	ing exploitation, automated and	manual target recognition and c	detection tools.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.235	0.081	0.191	0.132		
RDT&E Articles Qty						
TPC: Contractor support for Mods						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
	0.075	0.199	0.207	0.215		
Accomplishment/Effort Subtotal Cost	0.073	0.133	0.207	0.213		

APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER 0206313M Marine Corps (FY 2002 2.211 FY 2002 0.880	AND NAME	PROJECT NUM C2272 Intellig FY 2004 0.000 FY 2004 0.000	FY 2005 FY 2005 FY 2005
RDT&E, N /BA-7 Operational Sys Dev COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: EDM Design. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	0206313M Marine Corps (FY 2002 2.211 FY 2002 0.880	FY 2003 FY 2	C2272 Intellig FY 2004 0.000 FY 2004	BER AND NAME gence C2 Systems FY 2005 0.750 FY 2005
RDT&E, N /BA-7 Operational Sys Dev COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: EDM Design. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	0206313M Marine Corps (FY 2002 2.211 FY 2002 0.880	FY 2003 FY 2	C2272 Intellig FY 2004 0.000 FY 2004	FY 2005 FY 2005 FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: EDM Design. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	FY 2002 2.211 FY 2002 0.880	FY 2003 0.689	FY 2004 0.000 FY 2004	FY 2005 0.750 FY 2005
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: EDM Design. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	2.211 FY 2002 0.880	0.689 FY 2003	0.000 FY 2004	0.750 FY 2005
CDT&E Articles Qty TPCS-MPC: EDM Design. COST (\$ in Millions) CCOMPlishment/Effort Subtotal Cost CDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	FY 2002 0.880	FY 2003	FY 2004	FY 2005
TPCS-MPC: EDM Design. COST (\$ in Millions) ccomplishment/Effort Subtotal Cost DT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	0.880			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	0.880			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)	0.880			
RDT&E Articles Qty TPCS-MPC: System development. COST (\$ in Millions)		0.425	0.000	
TPCS-MPC: System development. COST (\$ in Millions)				0.525
COST (\$ in Millions)				
	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.517	0.650	0.126	0.000
RDT&E Articles Qtv	0.517	0.000	0.120	0.000
TPCS-MPC: Training development and	I test support			
		,		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.518	0.971	0.000	0.392
RDT&E Articles Qty				
TPCS-MPC: Program support and manage	gement.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.562	0.000	0.000	0.463
RDT&E Articles Qty				
TPCS-MPC: Contractor advisory assistant	ice service.			
COCT (¢ in Milliana)	FY 2002	FY 2003	FY 2004	FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.100
RDT&E Articles Qty	0.000	0.000	0.000	1.100
TPCS-MPC: Operational Test and Evalua	otion (OT&E)			
TFC3-WFC. Operational Test and Evalua	ation (OT&E).			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.532	2.366	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Development of HHPM and	Low-Cost Imager.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Qty		-	-	
TRSS-PIP: Acoustic classification effort	t.	<u>l</u>	L	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.027	0.000	0.000	0.000
RDT&E Articles Qty	0.027	0.000	0.000	0.000

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EXHIB	T R-2a, RDT&E Project Justifica	ation	DATE:	February 2
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	gence C2 Systems FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Qty		31333	*****	
TRSS-PIP: Technical assessment/fe	asibility study for alternative life-c	ycle aintenance solution.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.120	0.577	1.048	0.000
RDT&E Articles Qtv		0.011		
TRSS-PIP: Development of Advance	ed Air Delivered Sensor (AADS) s	tore.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.565	0.000	0.000	0.000
RDT&E Articles Qty	0.000	0.000	0.000	0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.097	FY 2003 0.000	FY 2004 0.000	FY 2005 0.000
RDT&E Articles Qty	0.037	0.000	0.000	0.000
TRSS-PIP: R&D contractual support	s for HHPM and Low-Cost Image	<u> </u>		
	5			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.411	0.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: R&D support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.052	0.216	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: R&D support for alternati	ve life-cycle maintenance effort.	<u>'</u>	•	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.026	0.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Field-testing and evaluate	ion of IADS II.	1		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.044	0.020	0.060	0.000
RDT&E Articles Qty				
TRSS-PIP: NAVAIR consulting for A	ADS Store		-	

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EXHIBIT	R-2a, RDT&E Project Justific	ation	[DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems			PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00		
RDT&E Articles Qty	0.000	0.000	0.0	0.000	
TRSS-PIP: Development of Unattended	d Ground Miniaturized Sensors	(UGMS) and AADS electronic	components	S	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00		
RDT&E Articles Qty					
TRSS-PIP: Air Certification of Advance	d Air Delivered Sensor (AADS	store.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.70	0.000	
RDT&E Articles Qty					
TRSS-PIP: Software Development of A	ADS and UGMS Monitoring Sy	rstem.		<u> </u>	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00	0.000	
RDT&E Articles Qty					
TRSS-PIP: Technical assessment of m	obile sensors.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.50	1.450	
RDT&E Articles Qty					
TRSS-PIP: Development of Visual Intel	ligence Surveillance Target Ale	ert System (VISTAS).			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.0	0.962	
RDT&E Articles Qty					
TRSS-PIP: Development of mobile sen	sors.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2	2004 FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.1	50 1.000	
RDT&E Articles Qty					
TRSS-PIP: Software development of V		_			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00	3.005	
RDT&E Articles Qty					
TRSS-PIP: Development of air relay/red	covery.	<u>, </u>			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00	0.647	
RDT&E Articles Qty					
TRSS-PIP: Development of alternative	•				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.0	0.180	
RDT&E Articles Qty					
TRSS-PIP: Software development of ai	r relay/recovery.				
(U) Total \$ 0.000	16.862	18.352	17.616	32.424	

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EXHIBIT F	R-2a, RDT&E Proje	DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		Systems	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems		
(U) PROJECT CHANGE SUMMARY:						
	FY2002	FY2003	FY2004	FY2005		
(U) FY 2003 President's Budget:	18.286	19.900	16.424	19.097		
(U) Adjustments from the President's Budget:						
(U) Congressional/OSD Prog Reduction	-0.051	-1.548	0.039	-1.730		
(U) Congressional Rescissions						
(U) Congressional Increases						
(U) Reprogrammings	-1.308		1.159	15.058		
(U) SBIR/STTR Transfer						
(U) Minor Affordability Adjustment	-0.065		-0.006	-0.001		
(U) FY 2004 President's Budget:	16.862	18.352	17.616	32.424		

CHANGE SUMMARY EXPLANATION:

(U) Funding: Increase in funding for FY04 and FY05 is due to the realignment of programs within the Marine Corps.

(U) Schedule: Not Applicable.(U) Technical: Not Applicable.

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	EXHIBIT R-2	2a, RDT&E Proje	ect Justification	on			DATE:	F	ebruary 2003		
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUMBE						
RDT&E, N /BA-7 Operational Sy (U) C. OTHER PROGRAM FUN			ine Corps Co	mmunication	Systems		C2272 Intellige	ence C2 Syste	ems		
Line Item No. & Name		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI 471400 Intell Support	TRSS-PIP	0.000	0.000	9.476	13.054	20.102	18.775	16.411	13.786	Continuing	Continuing
PMC BLI 474700 Intell Support	TRSS-PIP	1.811	5.788	0.000	0.000	0.000	0.000	0.000	0.000	0	7.599
PMC BLI 474700 Intell Support	CIHEP	0.000	1.788	1.390	1.489	1.585	1.681	1.803	1.909	Continuing	Continuing
PMC BLI 474700 Intell Support	COBRA	0.000	0.000	0.000	0.000	1.210	1.817	3.227	0.250	Continuing	Continuing
PMC BLI 474700 Intell Support	JSIPS	5.699	11.427	2.905	0.618	0.000	0.000	0.000	0.000	0	20.649
PMC BLI 474700 Intell Support	TPCS-MULTI	0.000	0.000	0.000	7.086	8.086	7.771	5.929	0.275	Continuing	Continuing
PMC BLI 474700 Intell Support	MP SIDS	0.000	0.000	1.062	2.857	1.711	1.712	1.762	1.721	Continuing	Continuing
PMC BLI 474700 Intell Support	IBR	2.494	0.000	1.557	3.545	1.409	0.418	0.428	0.436	Continuing	Continuing
PMC BLI 474700 Intell Support	TPC	1.853	7.170	3.317	0.573	0.000	0.000	0.000	0.000	Continuing	Continuing
PMC BLI 474700 Intell Support	RREP	0.000	3.939	0.000	0.000	4.194	0.000	0.000	4.228	Continuing	Continuing
PMC BLI 474700 Intell Support	TSCM	0.000	0.000	2.245	0.000	1.233	0.000	1.330	0.000	Continuing	Continuing
PMC BLI 474900 Intell Support	IAS MOD Kit	1.570	1.315	1.347	1.354	1.375	1.398	1.445	1.474	Continuing	Continuing
PMC BLI 474900 Mod Kits Intell	TCAC	0.863	1.462	0.345	1.545	0.945	0.945	0.945	1.145	Continuing	Continuing
PMC BLI 474900 Mod Kits Intell	JSTARS	1.680	0.262	3.331	5.606	4.617	0.088	4.623	1.504	Continuing	Continuing
PMC BLI 474900 Mod Kits Intell	TERPES	1.656	0.000	2.828	0.000	3.022	0.000	3.182	0.000	Continuing	Continuing
PMC BLI 474900 Mod Kits Intell	ISR	0.000	0.000	0.000	2.076	4.616	4.634	4.754	4.776	Continuing	Continuing

(U) Related RDT&E:

- (U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II)
- (U) PE 0604270A (Intelligence and Electronic Warfare Common Sensor (IEWCS), TACJAM-A)
- (U) PE 0305885G (Tactical Cryptologic Program)
- (U) PE 0603730A (Tactical Surveillance System Advanced Development), Army TENCAP, Project D560
- (U) PE 0603766A (Tactical Electronic Surveillance System Advanced Development), Army TENCAP, Project D907
- (U) PE 0604740A (Tactical Surveillance System Engineering Development), OSD TENCAP, Project D662
- (U) PE 0902398M (United States Special Operations Command), Chariot Program
- (U) PE 0605867N (SEW Surveillance/Reconnaissance Support), Project Z1034
- (U) PE 0206313M (Marine Corps Communication Systems), Project C9273

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EXHIBIT R-2	2a, RDT&E Project Justification	DATE:			
		February 2003			
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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems			

(U) D. ACQUISITION STRATEGY:

- (U) ACQUISITION STRATEGY JSTARS: JSTARS will utilize ongoing Army and Navy JSTARS contracts for procurement of follow-on Common Data Link (CDL) upgrades and for Pre-Planned Product Improvements (P3I) to the JSTARS CGS software baseline. SPAWAR-Charleston, SC will oversee the integration and testing of these upgrades within the USMC C4I architecture. On-Site contractor logistical support will be provided through General Dynamic's I2P2 contract out of MCLB, Albany, GA.
- (U) ACQUISITION STRATEGY COBRA: COBRA System Development, Test and Demonstration based upon a competitive, multi-year, CPFF/CPIF contract awarded to Northrop Grumman 4Q 2001. Production will be FFP. Technology insertion will add objective capabilities as they are matured and integrated by other DOD organizations.
- (U) ACQUISITION STRATEGY JSIPS TEG: The three deployed TEG(s) were procured from an ESC USAF Raytheon contract. During FY02, the Marine Corps brought control of the TEG program into Marine Corps System Command. A contract is in place with SPAWAR Charleston, SC to upgrade the TEG(s), conduct training, provide logistical support, sustainment and program management. Once a system baseline is established and tested, a MS III decision will be scheduled.
- (U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities.
- (U) ACQUISITION STRATEGY TRSS: Development will be competitive down selection process to two vendors for a Cost Plus Development Contract followed up with an award to one vendor with a FFP Production Contract. Air certification will be conducted in house at NAVAIR Patuxent River NAS, MD.
- (U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.
- (U) ACQUISITION STRATEGY CIHEP: CIHEP will use existing 8A contractor, Action Systems, the developer of the original system for test, evaluation and integration of planned refresh items for the ADP and Imagery Module. US Army IMA will be used for test, evaluation, and integration of planned refresh items for the TSS, Audio and Miscellaneous modules. CIHEP will coordinate acquisitions of communications equipment with PM Comm for planned upgrades to the Communications Module.
- (U) ACQUISITION STRATEGY MP SIDS: Seventy three (73) suites of the refreshed MP SIDS have been integrated and are in-process of being fielded. Fielding will be accomplished during the FY 02-03 timeframe. A contract is in place with SPAWAR Charleston, SC to provide configuration management, research and development and program management support. The MP SIDS has an established baseline and will receive a technological refresh of 33% of the system each year for FY 04 through 06.
- (U) ACQUISITION STRATEGY GCCS-I3: The contract vehicle to be used is an existing Cost Reimbursable conract. An Intelligence Integration Facility has been established at the Integrated Team Solution Facility. As such, this facility will be used as the hub for the entire integration effort of the GCCS-I3 initiative. The program is funded for five years beginning in FY02 and, as it is not a procurement effort, there are no life cycle or acquisition phases for which the Marine Corps is responsible.
- (U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.
- (U) ACQUISITION STRATEGY IBR: In house contracts will be used to conduct engineering studies and test and evaluation activities associated with the Marine Corps implementation of the Integrated Broadcast Service, Common Message Format.

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- (U) ACQUISITION STRATEGY TPC: TPC will continue Mods to system including the very large part of software/COTS upgrades. (Software will need security testing at each software upgrade).
- (U) ACQUISITION STRATEGY ISR: The ISR Program is embracing the capabilities-based, evolutionary approach of the new DoD 5000 series guidance to allow for a quick and efficient insertion of technology to the MAGTF. Currently, full-time contractor support is provied by BAE Applied Technologies, Bulldog Technical Services, and MTC Services Corporation. All Contractor support is resident within the ITS facility.
- (U) ACQUISITION STRATEGY IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment.

MANPACK SIDS (MP SIDS)

- FY 04 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration.
 - NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support.
- FY 05 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration.
 - NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support.

INTELLIGENCE BROADCAST RECEIVER (IBR)

- FY 04 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Stafford, VA Provide funds for Engineering and Program management support.
- COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Provide funds to MDA Technologies for IBS Common Message format implementation assessment.
- FY 05 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Stafford, VA Provide funds for Engineering and Program management support.
 - COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Provide funds to MDA Technologies for IBS Common Message format implementation assessment.

INTELLIGENCE ANALYSIS SYSTEM (IAS)

FY 04 SPAWAR, CHARLESTON, S.C. Provide funds for improvement to GCCS-I3 software, joint interoperability testing, trade study for IOS server and clients and integration of JTT.

FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for operational system development, joint interoperability, assessment and documentation and joint tactical terminal integration.

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TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE (TPCS-MPC)

FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM.

NAVAL SURFACE WARFARE COMMAND (NSWC), Crane, IN Provide funds to Digital Access Corp, Woodbridge, VA for SCSM development and Program Development Support Services (PDSS).

FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), System Engineering Technical Assistance, Stafford VA Provide funds SETA support contract for system engineering and program management.

COMPUTER SCIENCE CORP, Dumfries, VA Funds provided for SETA support for Configuration Management (CM).

BTG, Dumfries VA Funds provide Contractor Engineering Technical Support (CETS) at RadBn for training support and Independent Validation and Verification (IV&V) at 1st and 2nd RadBn.

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FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), System Engineering Technical Assistance, Stafford VA Provide funds SETA support contract for system engineering COMPUTER SCIENCE CORP, Dumfries, VA Funds provided for SETA support for Configuration Management (CM).

MARINE CORP OPERATIONAL TEST & EVALUATION ACTIVITY (MCOTEA), Quantico, VA Funds provides IOT&E.

GLOBAL COMMAND AND CONTROL SYSTEM INTEGRATED IMAGERY AND INTELLIGENCE (GCCS I3)

FY 04 MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services.

FY 05 MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services.

COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA)

FY 02 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melborne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM. (MCSC), Quantico.VA Provide funds for Program and technical support.

FY 03 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melborne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support.

FY 04 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melborne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support.

FY 05 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melborne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support.

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EXHIBIT R	-2a, RDT&E Project Justification	DATE:			
		February 2003			
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TOPOGRAPHIC PRODUCTION CAPABILITY (TPC)

- FY 02 MARINE CORPS INTELLIGENCE ACTIVITY (MCIA) Quantico, VA. Modification to Geographically Linked Information Dissemination Environment (GLIDE) application. Dec 01 MARCORSYSCOM, (MCSC), Quantico, VA. Provide funds to Northrop Grumman Information Technology, TASC, Chantilly VA for software modification. Oct 01
- FY 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC, for DII COE software segmentation Dec 02 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 02
- FY 04 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC for DII COE software segmentation Dec 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 03
- FY 05 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC, for DII COE software segmentation Dec 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 03

JOINT SURVEILLANCE TARGET ATTACK RADAR (JSTARS)

- FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development.

 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for Acquisition and Technical support.

 JOINT INTEROPERABILITY TEST CENTER (JITC), Ft. Huachuca, AZ. Provide funds for Interoperability testing.
- FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support.
- FY 04 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support.
- FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support.

JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG)

- FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for prime integration.
 - NAVAL SURFACE WARFARE CENTER (NSWC), Crane, IN, Provide funds for Operational Testing support.
 - MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline. AFB. Wash. DC. Classified Contract.
- FY 03 MARCORSYSCOM, Quantico, VA. Provide funds for software development. TBD, Provide funds for Acquisition and Technical support.
- FY 04 MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline.
 - TBD, Provide funds for Acquisition and Technical support.
- FY 05 MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline
 - TBD, Provide funds for Acquisition and Technical support.
 - L3 COMM, Salt Lake City, UT. Provide funds for TIGDL development.

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EXHIBIT R-	2a, RDT&E Project Justification	DATE:							
		February 2003							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME							
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems							

TACTICAL CONTROL AND ANALYSIS CENTER (TCAC)

FY 04 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems. Oct 03

FY 05 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems. Oct 04

TACTICAL REMOTE SENSOR SYSTEM (TRSS)

FY 02 NAWC, Crane IN. Provide funds towards development of HHPM and Low-Cost Imager (UGMS-1). Jun 02

FY 02 OCEAN SYSTEMS ENGINEERING CORPORATION (OSEC), Carlsbad, CA. Provide funds towards software development of HHPM, Low-Cost Imager (UGMS-1); and Improved Air-Delivered Sensor II (IADS-II) and continuation of R&D support. Mar 02

FY03 NAWC, Crane IN. Funds to be provided towards the development of Low-Cost Imager (UGMS-I). Feb 03

FY03 MODERN TECHNOLOGIES CORP., Springfield, VA. Funds to be provided for Alternative Life-Cycle Maintenace. Feb 03

FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the Advanced Air-Delivered Sensor (AADS). Mar 03

FY03 NAVAIR, Patuxent River, MD. Funds to be provided to PM-265 to begin air certification process of the AADS store. Apr 03.

FY03 OCEAN SYSTEMS ENGINEERING CORP. (OSEC), Carlsbad, CA. Funds to be provided for Software Development of UGMS Monitoring System. Apr 03.

FY 04 OCEAN SYSTEMS ENGINEERING CORPORATION (OSEC), Carlsbad, CA. Funds to be provided for software development of the AADS, UGMS and VISTAS. Oct 04.

FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the AADS Store. Oct 04.

FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the VISTAS. Oct 04.

FY04 NAVAIR, Patuxent River, MD. Funds to be provided for Consulting of AADS Store. Oct 04.

FY05 MTC SERVICES CORPORATION, Chula Vista, CA. Funds to be provided for the continuation of development of mobile sensors. Dec 04.

FY 05 OCEAN SYSTEMS ENGINEERING CORP (OSEC), Carlsbad, CA. Funds to be provided for software development of mobile sensors, VISTAS, and Air Relay/Recovery. Dec 04.

FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided to continue the development of the VISTAS and Alternative power. Dec 04.

FY05 NAVAIR, Patuxent River, MD. Funds to be provided for the development of the air relay/air recovery. Dec 04.

COUNTERINTELLIGENCE AND HUMAN INTELLIGENCE (HUMINT) EQUIPMENT PROGRAM (CIHEP)

FY02 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY02 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY02 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY02 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 02.

FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY03 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 02.

FY03 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 02.

FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 03.

FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 03.

FY04 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 03.

FY04 USAIMA, Fort Meade, MD. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 03.

FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 04.

FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 04.

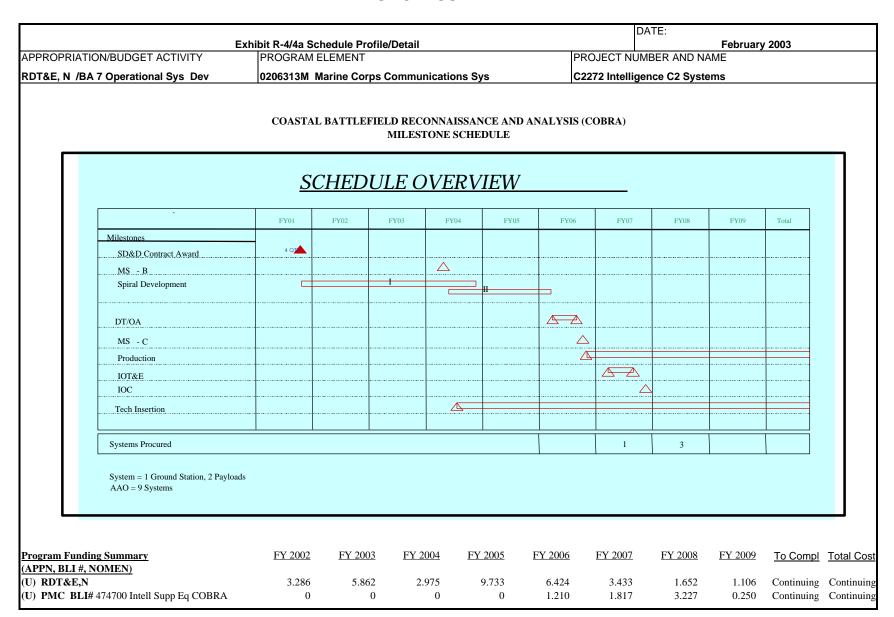
FY05 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 04.

FY 05 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 04.

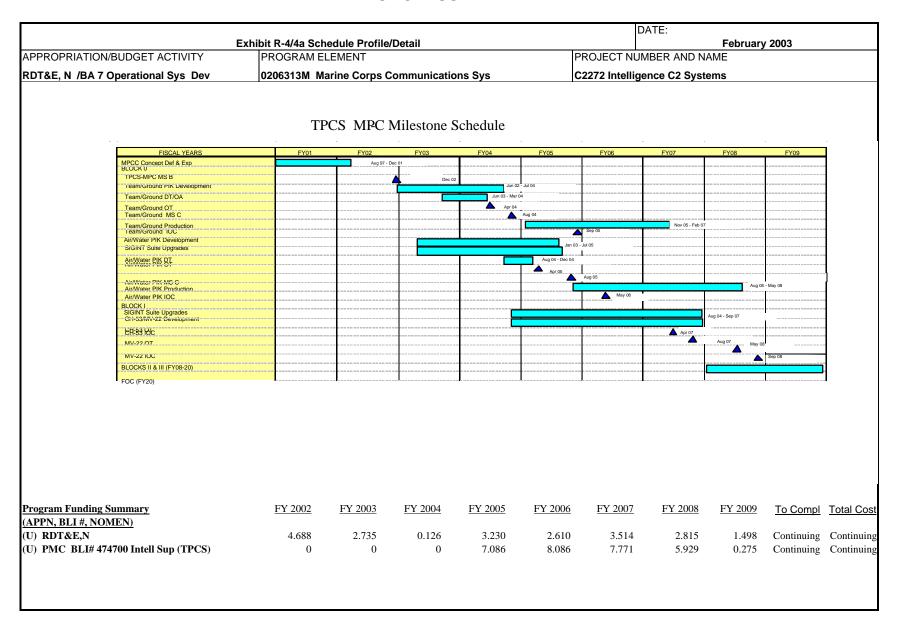
CLASSIFICATION:																	
	DATE:																
Exhibit R-3 Cost Analysis								February 2003									
APPROPRIATION/BÚDGET ACTIVITY PROGRAM ELEMENT 0206313M Marine Corps							PROJECT NUMBER AND NAME										
RDT&E, N /BA 7 Operation	tions Sys			C2272 Intelligence C2 Systems													
Cost Categories		Performing	•	Total		FY 02		FY 03		FY 04		FY 05			Target		
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of		
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract		
TENCAP	Various	Delfin		9.838	1.583	01/02	0.400	01/03	0.428	12/03	0.437	12/04	Cont.	Cont.			
TENCAP	TBD	TBD		0.685	0.000		0.100	03/03	0.145	12/03	0.148	12/04	Cont.	Cont.			
JSTARS		SPAWAR (0.359	0.594	04/02							0.000	0.953	1.333		
COBRA	RCP	MARCORS	YSCOM	0.500	0.165	12/01	4.973	12/02					Cont.	Cont.			
COBRA	RCP	NGIT							2.040	01/04	7.645	01/05	Cont.	Cont.			
JSIPS TEG	MIPR	AFB, Wash	DC	2.314	0.300	12/01							0.000	2.614	5.509		
JSIPS TEG	WR	SPAWAR			1.044	12/01							0.000	0.000	5.509		
TPCS-MPC	WR	SPAWAR			1.931	12/01	0.689	12/02			0.750	TBD	Cont.	Cont.			
MP SIDS	WR	SPAWAR							0.146	01/04	0.147	02/05	Cont.	Cont.			
CIHEP	RCP	Action Syste	ems		0.031	04/02	0.030	12/02			0.035	12/04	Cont.	Cont.			
CIHEP	RCP	USAIMA							0.031	12/03			Cont.	Cont.			
CIHEP	RCP	NGIT					0.016	01/03	0.020	01/04	0.025	01/05	Cont.	Cont.			
CIHEP	RCP	MTC Service	e Corp				0.020	01/03	0.020	01/04	0.025	01/05	Cont.	Cont.			
CIHEP	RCP	MCSC	•		0.085	06/02	0.043	06/03	0.041	06/04	0.031	06/05	Cont.	Cont.			
TRSS-PIP	RCP	NAWC, Cra	ne		1.000	06/02	2.366	02/03					Cont.	Cont.			
TRSS-PIP	WR	NSWC, Dah	nlgren		0.123	02/02							Cont.	Cont.			
TRSS-PIP	WR	NPGS, Mon	terey		0.027	04/02							Cont.	Cont.			
TRSS-PIP	RCP	ModernTC			0.329	03/02	0.216	02/03			0.962	12/04	Cont.	Cont.			
TRSS-PIP	RCP	OSEC			0.765	03/00	0.300	04/03	0.850	01/04	1.180	12/04	Cont.	Cont.			
TRSS-PIP	RCP	MCSC					0.577	04/03	2.548	01/04	2.097	12/04	Cont.	Cont.			
TRSS-PIP	MIPR	NAVAIR					0.020	04/03	0.060	01/04	3.005	12/04	Cont.	Cont.			
IBR	RCP	NGIT							0.277	10/03	0.288		Cont.	Cont.	.]		
IBR	RCP	CSC/MDA							0.754	10/03	0.722	10/04	Cont.	Cont.			
Subtotal Product Development			13.696	7.977		9.750		7.360		17.497		Cont.	Cont.				

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	DATE:																	
Exhibit R-3 Cost Analysis								February 2003										
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT							PROJECT NUMBER AND NAME											
0206313M Marine Corps																		
RDT&E, N /BA 7 Operational Sys Dev Communication							C2272 Intelligence C2 Systems											
	L	_						Ī				1		1				
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target			
(Tailor to WBS, or Sys/Item	Method	Activity &		-	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of			
Requirements)	& Type	Location			Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract			
TENCAP	Various	Delfin		2.785	0.800	10/01	2.199		2.253		2.317		Cont.	Cont.				
TENCAP	TBD	TBD		0.200	0.000		0.267	03/03	0.100	12/03	0.103	12/04	Cont.	Cont.				
TENCAP	MIPR	SMC/XRBP			0.320								0.000		0.320			
COBRA	RCP	CSS		0.800	2.100		0.658	10/02					Cont.	Cont.				
COBRA	WR	BRTRC		0.260	0.100	12/01	0.006						Cont.	Cont.				
COBRA	WR	NAWC-AD		0.200	0.020		0.200						Cont.	Cont.				
COBRA	WR	NSWC		0.281	0.851	04/02	0.025	04/03					Cont.	Cont.				
COBRA	RCP	various							0.435		1.038		Cont.	Cont.				
COBRA	WR	NAVSEA							0.500	10/03	0.850		Cont.	Cont.				
COBRA	WR	NAVAIR									0.200	11/04	Cont.	Cont.				
JSIPS - TEG	WR	MCSC			0.183	01/02							Cont.	Cont.				
JSIPS - TEG	WR	NSWC, Cra	ine		0.377	01/02							Cont.	Cont.				
JSIPS - TEG	RCP	TBD					0.485		0.400		0.355		Cont.	Cont.				
JSIPS - TEG	RCP	MCSC					1.771	01/03	1.815	01/04	0.940		Cont.	Cont.				
JSIPS - TEG	RCP	L3 COMM									0.940		Cont.	Cont.				
TPC	RCP	MCSC		0.371	0.235	12/01	0.081	12/02	0.191	12/03	0.132	12/04	Cont.	Cont.				
TPCS-MPC	RCP	NGIT			0.562	11/01							Cont.	Cont.				
TPCS-MPC	RCP	CSC			0.464	03/02	0.971	04/03			0.855	TBD	Cont.	Cont.				
TPCS-MPC	RCP	DAC			0.054	03/02							Cont.	Cont.				
TPCS-MPC	MIPR	MCOTEA							0.126	12/03	1.100	TBD	Cont.	Cont.				
TPCS-MPC	RCP	NSWC, Cra	ine		0.880	08/02							Cont.	Cont.				
MP SIDS	RCP	NGIT							0.050		0.050		Cont.	Cont.				
IAS MOD KIT	RCP	SPAWAR							0.470		0.574		Cont.	Cont.				
IAS MOD KIT	WR	SPAWAR							0.507	11/03	0.436		Cont.	Cont.				
GCCS I3	RCP	MTC							0.893		0.937		Cont.	Cont.				
GCCS I3	RCP	G2 Technol	ogy						0.628	10/03	0.596		Cont.	Cont.				
TCAC	RCP	BTG							0.890	10/03	0.904	10/04	Cont.	Cont.				

CLASSIFICATION:															
Exhibit R-3 Cost Analysis							DATE:				February	2003			
APPROPRIATION/BUDGET	ACTIVITY	,	PROGRAM EL	EMENIT			DDO IEC	NIIMBE	R AND NA	ME	i ebiuai y	2003			
AFFROFRIATION/BODGET	ACTIVITI						FIXOSEC	NONDL	IN AIND INA	NIVIL.					
DDTSE N /DA 7 On anation	-I C D-		0206313M Ma		JS		C0070 Ind	-11:	. 00 0						
RDT&E, N /BA 7 Operation			Communication		0.400	00/00	C22/2 Int	eiligence	C2 Syste	ms		1	Cont	0	
JSTARS JSTARS	RCP RCP	NGIT TBD		0.242	0.182	03/02	0.400	40/00	0.040	40/00	0.004	10/04	Cont.	Cont.	
JSTARS JSTARS	WR	SPAWAR					0.180 0.485	10/02 11/02	0.316 0.340	10/03 01/04	0.261 0.488		Cont.	Cont.	
JSTARS JSTARS	MIPR				0.445	03/02	0.485	11/02	0.340	01/04	0.488	01/05	Cont.	Cont.	
		JITC			0.145								Cont.	Cont.	
JSTARS	MIPR	WR-ALC			0.060	03/02			0.400	40/00			Cont.	Cont.	
IBR PIR	RCP	CSC/MDA			2 227	00/00			0.100	10/03			Cont	Cont.	
TRSS-PIP	WR	NSWC, Cra	ne		0.097	02/02							Cont	Cont.	
TRSS-PIP	RCP	OSEC			0.235	11/01							Cont	Cont.	
TRSS-PIP	RCP	MilleniumTO	;		0.211	04/02		E) / 6 =		E) / C :		E) / C =	Cont	Cont.	_
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
TRSS-PIP	RCP	NGIT			0.087	11/01							Cont	Cont.	
ISR		MTC									0.340		Cont.	Cont.	
ISR	WR	G2 Technol	ogy								0.308	01/05	Cont.	Cont.	
ISR	WR	MTC									0.420	02/05	Cont.	Cont.	
Subtotal Support				5.139	7.963		7.328		10.014		14.144		Cont.	Cont.	
Remarks:	T =	T		ı <u> </u>	T	r==	1		1		1	T	_	.	T
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost		Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
COBRA	WR	MCOTEA			0.050	11/02									
TPC	RCP	MCIA			0.075	12/01							Cont.	Cont.	
TPC	RCP	MCSC					0.199	10/02	0.207	10/03	0.215		Cont.	Cont.	
TPCS-MPC	RCP	SPAWAR			0.280	06/02	0.425	03/03			0.525	TBD	Cont.	Cont.	
TPCS-MPC	RCP	BTG			0.517	03/02	0.650	03/03					0.000	1.167	1.28
MP SIDS	RCP	NGIT							0.010	01/04	0.010	01/05	Cont.	Cont.	
MP SIDS	WR	SPAWAR							0.014	01/04	0.015	01/05	Cont.	Cont.	
Subtotal T&E				0.000	0.922		1.274		0.231		0.765		Cont.	Cont.	
Remarks:															
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Ite	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
MP SIDS	WR	SPAWAR							0.011	01/03	0.018	01/05	Cont.	Cont.	
Subtotal Management				0.000	0.000		0.000		0.011		0.018		Cont.	Cont.	
Remarks:	•	•							•			•		•	•
Total Cost					16.862		18.352		17.616		32.424		Cont.	Cont.	
TOTAL COST															



	=		/5				DATE:				
PROPRIATION/BUDGET ACTIVITY	Exhibit R-4/4a	Schedule Prof // ELEMENT	ile/Detail			PROJECT N	<u> </u> IUMBER AND	Februai	y 2003		
			- C	ationa C							
T&E, N /BA 7 Operational Sys Dev	U2U6313IV	Marine Corp	s Communic	ations Sys		C22/2 Intell	C2272 Intelligence C2 Systems				
COBRA SCHEDULE DETAIL		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
MS B				2Q							
Spiral Development II				2Q		1Q					
DT/OA						2Q					
MS C						3Q					
Production						4Q					
IOT&E							1Q3Q				
IOC							4Q				
Tech Insertion				3Q							



EOPRIATION/BUDGET ACTIVITY	xhibit R-4/4a S	Schedule Pro	file/Detail			IDDO IECT N	DATE:	Februa	ry 2003	
						PROJECT NUMBER AND NAME				
E, N /BA 7 Operational Sys Dev	0206313M	Marine Corp	s Communic	ations Sys		C2272 Intell	Intelligence C2 Systems			
TPCS-MPC SCHEDULE DETAIL	_	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
MS B EDM Dev and Demo			1Q							
DT/OA			4Q	3Q						
IOT & E				3Q						
MS C				4Q						
Ground/Team PIK IOC					4Q					
Air/Water PIK OT					3Q					
Air/Water PIK MS C					4Q					
Air/Water PIK IOC						3Q				
CH-53 OT			1				3Q			
CH-53 IOC							4Q			
MV-22 OT								3Q		
MV-22 IOC								4Q		
			1	1						
			<u> </u>							
			1	+	1		1			
		1	+	+	1		1			
		1	+	+						
		<u> </u>			<u> </u>	L	<u> </u>	L		

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EXHIBIT R-2	, RDT&E Projec	t Justification				DATE:				
						February 2003				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUMBE	R AND NAME			PROJECT NU	MBER AND NA	ME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M I	0206313M Marine Corps Communications Sys					Operations (22 Systems		
·									Cost To	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	21.930	65.142	95.971	106.936	79.117	106.415	31.574	20.324	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Air Operations C2 coordinates and plans Navy and Marine air combat operations and interfaces with joint and combined forces air operations. It also interfaces with fire support C2. The systems in this project are used to detect aircraft and missiles, process the detected information, deliver the processed information to the Advanced Tactical Air Command Central (ATACC), and conduct the air battle.
- 1. The Air Defense Communications Platform (ADCP) PIP provides an interface for the AN/TPS-59(V)3 radar and for tactical ballistic missile defense as a JTIDS network user. The ADCP provides a direct interface between the AN/TPS(V)3 and the joint services.
- 2. The Aviation Radar (AN/TPS-59) is a "congressionally mandated" national asset. It is the only fielded ground based sensor which can detect and track Theater Ballistic Missiles at ranges of 400 nautical miles, for 360 degrees up to one million feet in elevation. Funding for this program has moved to Project C3099 within this Program Element (PE) FY04.
- 3. The Common Aviation Command and Control System (CAC2S) will provide a common baseline of equipment, computer hardware, and software required to perform the mission of the Marine Air Command and Control System (MACCS). CAC2S will provide a complete and coordinated modernization effort for the equipment of the MACCS to support its employment in an Operational Maneuver from the Sea (OMFTS) environment. The CAC2S will eliminate the current dissimilar aviation Command & Control systems, and will add the capability for aviation combat direction and air defense functions. CAC2S will be comprised of standardized tactical facilities, hardware, software and will significantly reduce the physical size and logistical footprint of existing MACCS equipment suite. Utilizing common hardware, the CAC2S will be an open architecture system that will migrate to the Defense Information Infrastructure Common Operating Environment (DII COE). Furthermore, CAC2S will execute real time functions of controlling aircraft and missiles, and employing weapon systems against time critical targets.

CAC2S will provide a capability that allows operators to integrate Marine aviation into joint and combined air/ground operations. CAC2S will provide the tools that perform aviation C2 planning and execution functions in a positive control environment. CAC2S will assimilate the missions and fiscal resources of the Tactical Air Operations Center (TAOM), Tactical Air Command Center and the Direct Air Support Center (DASC) and the Air Defense Communications Platform (ADCP).

- 4. The Composite Tracking Network, formerly known as Cooperative Engagement Capability (CEC), enables all CTN and CEC equipped, Anti-Air Warfare (AAW) weapons systems in a battle force to operate as a single, distributed AAW weapon system. This is accomplished providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapons management status. The sensor networking capability of CTN essentially allows forces to have a direct connection to the various sensors supported by forces throughout a battlefield enabling the development of a common understanding of the air situation. CTN consists of common processing units that interface with local and remote sensor data in order to develop a common track database and data communications pieces that enable the connectivity and networking of the sensors and processors. Funding for this program in FY02 and FY03 is found in Project C2278 with this PE.
- 5. The Critical Infrastructure will develop a new capability for video teleconferencing capability via service intranet capabilities.
- 6. The MACCS Sustainment consists of various command and control agencies designed to provide the Aviation Combat Element (ACE) commander with the ability to monitor, supervise and influence the application of Marine aviation assets in support of MAGTF operations. The MACCS Sustainment provides funding to keep these legacy agencies ready, relevant and capable until their functions are replaced by the Common Aviation Command and Control System (CAC2S).
- 7. "SIAP is the product of fused, common, continual, unambiguous tracks of airborne objects within the surveillance area." The Single Integrated Air Picture (SIAP) Systems Engineer Task Force is an ad hoc Joint effort to investigate, research and produce the most cost effective means for producing a SIAP. The SIAP System Engineer Task Force (SE TF) is not limited to just material solutions in this effort; all aspects will be considered for recommendation to produce the SIAP including tactics, techniques and procedure changes to Service operations. Funding for this program in FY03 is found in C2270 within this PF.
- 8. Theater Battle Management Core Systems (TBMCS) provides the commander the automated tools necessary to generate, disseminate, and execute the Air Tasking Order (ATO), as mandated by the Chairman, Joint Chiefs of Staff in July 1993. It is an evolutionary acquisition, allowing for the rapid development/fielding of hardware and software to meet today's rapidly advancing technology. It is fielded to all four Marine Tactical Air Command Squadrons (MTACS) and the supporting establishment with Marine Aviation Weapons and Tactics School (MAWTS) and the Battlestaff Training Facility (BSTF) sharing a system.

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EXHIBIT R-2a, R	DT&E Project Justification	DATE:					
	February 2003						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems					
The Unit Operations Center (LIOC) project develops and transitions two Command and Control Imperative ATDs (the Expeditionary Integrated Combat Operations Center) and the Joint Tactical							

9. The Unit Operations Center (UOC) project develops and transitions two Command and Control Imperative ATDs (the Expeditionary Integrated Combat Operations Center) and the Joint Tactical Communications ((JT COMMs) ATDs) into various Marine Corps and Joint Engineering and Manufacturing Development (E&MD) efforts. UOC development efforts focus on: Cognitive Task Analysis (CTA); enhanced ergonomic physical design; evaluation of advanced multimedia hardware; integration and networking with advanced development communication systems; and advanced software development to support systems integration and advanced battlefield visualization concepts. UOC developments are tailored to support transition of software and hardware developments as PIPs to the established MAGTF C41 baseline. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield automation systems.

It will be, in essence, a "system of systems" designed to optimize the positioning, interaction, and flow of information among the various staff agencies (G-2, G-3, Operations Directorate, etc.) and their automated information systems and between the unit and higher, adjacent or subordinate units or headquarters. The Marine Corps deploys Component/Joint Task Force (JTF/Marine Air Ground Task Force (MAGTF)) command elements throughout the world to fulfill operational requirements, often in joint/combined forces arenas. The UOC is designed in garrison and tactical versions. The tactical version is called the Combat Operations Center (COC) which is an outgrowth of the integrated COC (ICOC), COC-Interim (COC(I)), and the Enhanced COC (ECOC) developments over the last two years. The garrison version is called the Command Center (CC). Funding for this program in FY02 and FY03 is found in C2270 within this PE.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

(0) B. ACCOMPLISHMENTS/FLANNED FROGRAM.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.125	0.105	0.099	0.035
RDT&E Articles Qty				
ADCP: Tested and certified software enhancements.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.100	0.100	0.094	0.088
RDT&E Articles Qty				
ADCP: Software enhancements to meet ADCP ORD	requirements.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	5.907	0.000	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59: Demonstrated potential antenna technol	ogy/slotted waveguide antenna	1.	·	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.612	0.000	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59: Develop ECP to incorporate electronic	protection.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.500	0.000	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59: Developed ECP to incorporate new tran	smitters for the antenna.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.098	0.000	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59: Initiated ECP false alarm adaption softs	vare.		·	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.939	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59: Develop ECPs for software improveme	nts. Funding for this program	has moved to Project C3099	within this PE.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.500	0.000	0.000

		UNCLASSIFIED			
EXHIBIT	R-2a, RDT&E Project Justification		DATE:	February 20	03
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev RDT&E Articles Qtv	PROGRAM ELEMENT NUMBI 0206313M Marine Corps		PROJECT NU C2273 Air		
AN/TPS-59: Develop Automatic False Alarm	Reduction (FAR) software Funding	for this program has moved to E	Project C3099 within this	PE	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	2.100	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Investigate Advanced Technology	gies to incorporate into the antenna. F	unding for this program has mo	ved to Project C3099 wit	hin this PE.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.562	0.000	
RDT&E Articles Qty					
AN/TPS-59: Adjustment for PBD 290. Fund	ing for this program has moved to Pro	ject C3099 within this PE.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	2.591	3.170	5.170	5.276	
RDT&E Articles Qty					
CAC2S: Program management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	5.675	8.014	11.966	18.948	
RDT&E Articles Qty					
CAC2S: PDRR demonstration. Engineering applications, developmental testing and evaluation a COST (\$ in Millions)		and software development, des	ign, of host processing sy	rstem, and conduct software in	egration of
Accomplishment/Effort Subtotal Cost	0.000	42.110	44.465	43.440	
RDT&E Articles Qtv	0.000	42.110	44.400	43.440	
	with nonhooing alon and continued and	and interest on lintermetical	minotions intenfore !!	manahilitu dayalammar*	
CAC2S: System development in accordance COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
,					
Accomplishment/Effort Subtotal Cost	0.000	0.600	0.600	2.664	
RDT&E Articles Qtv					

		UNCLASSIFIED)					
EXHIBIT R-2a	, RDT&E Project Justification	1	DATE:	February				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUME 0206313M Marine Corp			PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.834	1.215				
RDT&E Articles Qty								
CTN: Software development: Interface Design Do	cument (IDD) development for	CAC2S and CLAWS interfac	e to CTN.	•				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	6.307	0.000				
RDT&E Articles Qty								
CTN: Development of Engineer Design Model.	•	•						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.919	0.000				
RDT&E Articles Qty								
CTN: Testing and Evaluation: Developmental testi	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.530	0.610				
RDT&E Articles Qtv	5.555	0.000	0.000	0.0.0				
CTN: Program management support.	.	1		1				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.920				
RDT&E Articles Qty								
CTN: IV&V of the certified system with interfaces	to CAC2S and CLAWS.							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.735				
RDT&E Articles Qty								
CTN: Finalize Engineer Development Model for pr	oduction design. Funding for th	is effort in FY02 and FY03 is	s provided under Project (C2278 within this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.000	2.000	0.000	0.000				
RDT&E Articles Qty								
CRITICAL INFRASTRUCTURE: VTC Coop Eng	gineering.							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.295	0.022	0.022	0.500				
RDT&E Articles Qty								

FXHIRI'	T R-2a, RDT&E Project Justificat	tion	DATE:	
EATIBI	,		5,112.	Fel
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU			NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Co	orps Communications Sy	s C2273 A	Air Operations C2 Sys
MACCS SUSTAINMENT: Test and evalu	uation on the DASC Airborne SLE	P.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.223	0.899	0.899	0.000
RDT&E Articles Qty	2.220	0.000	0.033	0.000
MACCS SUSTAINMENT: Planned softwa	re upgrades for the TAOM, JTIDS	and TACC, DASC.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.101	0.290	0.290	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Program manag	ement support.	•	•	•
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.537	1.183	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Multi-Source Co	orrelation System software develop	ment.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Test and Evaluti	ion for TAOM tech insert and interes	pperability.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.343
RDT&E Articles Qty				
MACCS SUSTAINMENT: Technology into	egration efforts for MSCS (TACC).			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Qty				
SIAP: Implement JROC approved Block 0 c	changes in the TAOM.	·		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	5.960	7.833
RDT&E Articles Qty				
SIAP: Service System Engineering support to	o SIAP System Engineer Task Forc	e.	•	•
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.880	0.000
RDT&E Articles Qty				
SIAP: Update MCTSSA SIE HWILT (AVN	C2) hardware and software to refle	ct SIAP changes.	•	•
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.200	1.200
RDT&E Articles Qty		1	1	1

EXHIBIT	R-2a, RDT&E Project Justification	1	DATE:					
				February 2003				
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMB			PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems				
DT&E, N /BA-7 Operational Sys Dev COST (\$ in Millions)	0206313M Marine Corps FY 2002	FY 2003	FY 2004	is .				
ccomplishment/Effort Subtotal Cost	0.407	0.465	0.474	FY 2005 0.446	_			
T&E Articles Qtv	0.407	0.403	0.474	0.440	_			
TBMCS: USMC TBMCS development.	I							
COST (\$ in Millions)	EV 2000	FV 0000	F)/ 0004	EV 000E	_			
omplishment/Effort Subtotal Cost	FY 2002 0.033	FY 2003 0.033	FY 2004 0.033	FY 2005 0.035	_			
E Articles Qty	0.033	0.033	0.033	0.033	_			
TBMCS: MCTSSA TBMCS software support								
		T = 1	=1/222		_			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	_			
complishment/Effort Subtotal Cost	0.263	0.258	0.255	0.279	4			
T&E Articles Qty	L							
TBMCS: Program management support.			=		_			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
complishment/Effort Subtotal Cost	0.000	0.000	9.582	0.000				
T&E Articles Qty	1 1		HOGH: 1G	1 I . C . M . I .				
UOC: Continue engineering and manufacturin	C 1 1	presentative modules to include	UOC Universal Comm	unications Interface Modul	e (UCIM).			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
complishment/Effort Subtotal Cost	0.000	0.000	0.000	8.798				
T&E Articles Qty								
UOC: Engineering and manufacturing develo	pment effort including design of prod	luction representative modules t	o include UOC Universa	d Communications Interface	e Module (UC			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
complishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000				
T&E Articles Qty								
UOC: Operational Testing.	•							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
ccomplishment/Effort Subtotal Cost	0.000	0.000	1.647	1.758				
DT&E Articles Qty								
UOC: Program Management Support								
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	_			
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.813	=			
OT&E Articles Qty	0.000	0.000	0.000	0.010				
UOC: Configuration analysis for CSSE, CE,	and FICCS Unit Operations Centers	Support wireless technology up	grade, web-based training	g tool, and rotary generato	 r.			
nding for this effort in FY03 is provided under Pro			p,	o, and roun's generate				
g ,	.,							
		65.142	95,971	106.936				

RDT&E, N /BA-7 Operational Sys Dev (U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to real (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	OGRAM ELEM 16313M Mai 24.074 -0.065 -1.292 -0.431 -0.356 21.930	ENT NUMBER rine Corps C 63.320 -3.778 5.600	30.616 -0.011 95.971	18.464 -2.792 91.262 0.002 106.936	F	NATE: ROJECT NUM C2273 Air O			003	
RDT&E, N /BA-7 Operational Sys Dev (U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.065 -1.292 -0.431 -0.356 21.930	rine Corps C 63.320 -3.778 5.600	30.616 -0.011 95.971	18.464 -2.792 91.262 0.002 106.936	L.			ИE		
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-1.292 -0.431 -0.356 21.930	63.320 -3.778 5.600	65.786 -0.420 30.616 -0.011 95.971	18.464 -2.792 91.262 0.002 106.936	<u> c</u>	2273 Air O _l	perations C	2 Systems		
(U) Adjustments from the President's Budget: (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.065 -1.292 -0.431 -0.356 21.930	-3.778 5.600 65.142	-0.420 30.616 -0.011 95.971	-2.792 91.262 0.002 106.936						
(U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-1.292 -0.431 -0.356 21.930	5.600 65.142	30.616 -0.011 95.971	91.262 0.002 106.936						
(U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-1.292 -0.431 -0.356 21.930	5.600 65.142	30.616 -0.011 95.971	91.262 0.002 106.936						
(U) Congressional Increases (U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.431 -0.356 21.930	65.142	-0.011 95.971	0.002 106.936						
(U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.431 -0.356 21.930	65.142	-0.011 95.971	0.002 106.936						
(U) Reprogrammings (U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.431 -0.356 21.930		-0.011 95.971	0.002 106.936						
(U) SBIR/STTR Transfer (U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	-0.356 21.930		95.971	106.936						
(U) Minor Affordability Adjustment (U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	21.930		95.971	106.936						
(U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	21.930		95.971	106.936						
CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name										
(U) Funding: Change in FY 04 and FY05 is due to rea (U) Schedule: Not Applicable. (U) Technical: Not Applicable. (U) C. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	ealignment o	f programs w	ithin the Mari	ne Corps.						
	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Co
(U) PMC, BLI#462000, ADCP PIP	0.364	0.322	0	0	0	0	0	0	0	0.68
(U) PMC, BLI#464000, ADCP PIP	0	0	0.275	0.175	0.055	0	0	0	0	0.50
(U) PMC, BLI #463600, AN/TPS-59	5.179	7.464	0	0	0	0	0	0	0	12.64
(U) PMC, BLI #465100, AN/TPS-59	0	0	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuir
(U) PMC, BLI #468900, CAC2S	0	0	0	0	3.909	39.198	41.735	41.805	Continuing	Continuir
(U) PMC, BLI #464000, CTN	0	0	0	8.270	22.537	34.901	43.970	68.590	Continuing	Continuir
(U) PMC, BLI #464000, MACCS SUSTAINMENT	0.035	3.034	4.023	6.729	11.990	1.870	1.416	1.345	0	30.44
(U) PMC, BLI #464000,TBMCS (CTAPS)	2.804	2.381	6.492	3.484	3.609	3.702	3.827	3.903	Continuing	Continuir
(U) PMC, BLI #463100, UOC	0	22.518	0.015	0	0	0	0	0	0	22.5
(U) PMC, BLI #419000, UOC	0	0	29.225	36.045	41.292	124.663	151.987	147.525	Continuing	Continuir
(U) Related RDT&E: Not Applicable.										
(O) Related RDTQL. Not Applicable.										

	UNCLASSIFIED	
EXHIBIT R-2a, F	RDT&E Project Justification	DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems

(U) D. ACQUISITION STRATEGY:

- (U) ADCP: PM AD has an In Service Engineering Assessment (ISEA) with Crane. As part of the ISEA, Crane is tasked to develop, produce, and implement Engineering Change Proposals, or mods as identified in the new DOD 5000. In this case the Multi-Channel Interface (MCIU) interface to the TAOM (V)4 providing a Joint Tactical Data Link (TADIL J) capability to the TAOM (V)4 is being produced.
- (U) AN/TPS 59: Perform research and development for electronic protection and continuing resolution of Diminishing Manufacturing Sources (DMS) as well as replacement of transmitters on the 12 arrays over the FYDP.
- (U) CAC2S: The contracting strategy is centered on a family of options that will be exercised from PDRR through production based on contractor performance. The base contract is for PDRR and there will be options for SDD and Production. The PDRR contract is a Cost Plus Fixed Fee for 12 month period. Following the PDRR phase, an option for the SDD phase will be exercised. The ESDD will be Cost Plus Award Fee. After successful completion of SDD, a production option will be exercised. The production contracts will be Firm Fixed Price Successive Targets (Modified).
- (U) CRITICAL INFRASTRUCTURE: The program will be executed under Government Works contract by evaluating proposals that will be compatible with DVS-G and service programs.
- (U) MACCS SUSTAINMENT: The Direct Air Support Central (Airborne) Abbreviated Acquisition Program is utilizing a sole-source strategy with Computing Devices Canada, an owned subsidiary of General Dynamics, for procurement of Communications Distribution System equipment. Prototype development and system integration will be conducted by Naval Surface Weapons Center, Crane, IN.
- (U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's program procurement and testing, making necessary modifications to support the Marine Corps' requirement. (U) SIAP is a systems engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future C4ISR systems.
- (U) TBMCS: TBMCS is an ACAT 1AC, USAF Program with joint interest/oversight. It was mandated by the Chairman, Joint Chiefs of Staff in July 93 for Air Tasking Order (ATO) Interoperability among all Services. The USMC will not be letting any competitive contracts for TBMCS, but following the USAF lead, utilizing USAF TBMCS contracts and fielding only the joint modules of TBMCS. As USMC unique requirements are identified and funded, they will be provided to the USAF (to include funding) for inclusion within TBMCS utilizing the USAF cost plus fixed fee
- (U) UOC: The UOC COC is a Competitively Awarded Contract for design (cost type) and FFP production options.

UNCLASSIFIED								
EXHIBIT R-2a,	RDT&E Project Justification	DATE:						
		February 2003						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems						

(U) E. Major Performers:

(U) AN/TPS-59 Lockheed Martin Corp., Syracuse, NY. FY02 awarded Jan 02 for the AN/TPS-59 program to develop ECPs to incorporate electronic protection and new transmitters for the antenna and to initiate ECP false alarm adaption software. FY03 project contract with LMC in Mar 03 to develop ECPs for software improvements.

UNIT OPERATIONS CENTER (UOC)

- FYO2 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 02.
- FY02 Northrop Grumman, Stafford VA. Support services. Oct 02.
- FY03 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 03.
- FY04 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 04.
- FY05 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 05.
- FY05 SPAWAR, Charleston SC. Support Services. Jan 05

COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S)

- FY02 Northrop Grumman, Stafford VA. Support services. Oct 02
- FY02 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 02.
- FY03 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 03.
- FY04 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 04.
- FY05 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 05.

COMPOSITE TRACKING NETWORK (CTN)

- FY04 NSWC Crane, IN. Mobility platform integrator. Jan 04
- FY04 Lockheed Martin, Syracuse NY. Radar integration. Jan 04
- FY05 NSWC Crane In. Mobility platform integrator. Jan 05

CRITICAL INFRASTRUCTURE

FY03 Government Works, Headquarters, Herndon, VA. Mar 03

MACCS SUSTAINMENT

- FY02 Litton Systems, Woodland Hills Ca. Contractor Logistics Support Services. Oct 02
- FY03 Lockheed Martin, Syracuse NY. Engineering services. Jan 03
- Y04 Lockheed Martin, Syracuse NY. Engineering services. Jan 04
- FY05 Mission research. Engineering and software services. Jan 05

CLASSIFICATION:

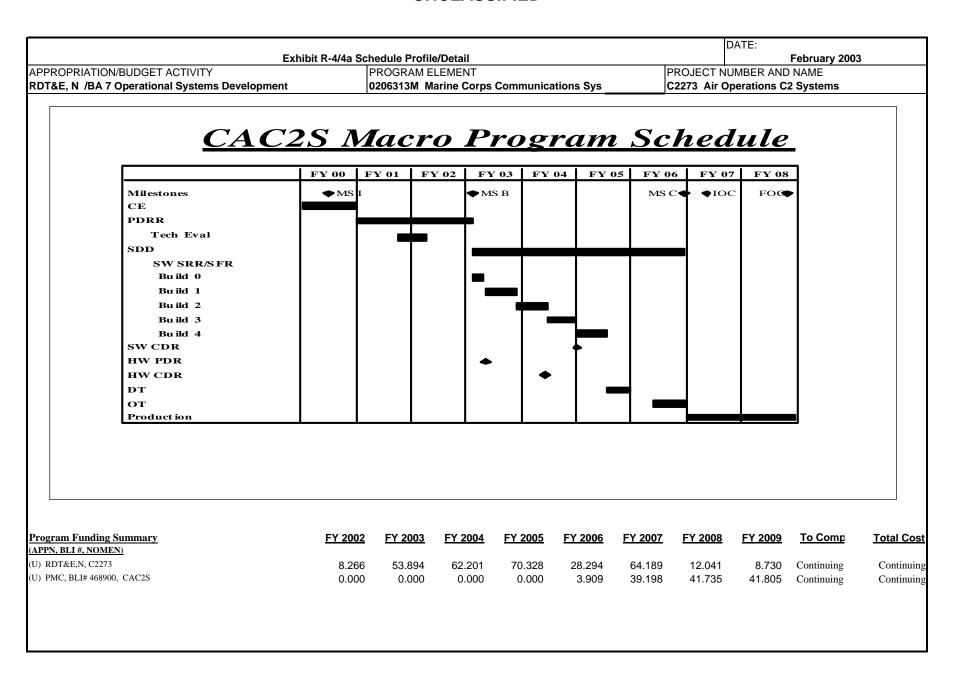
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Exhibit D. 2 Coot Analysis								DATE:			Г.		0000		
Exhibit R-3 Cost Analysis		TV	DDOODAM	CI CMCNI	-				חחס ובס	TAILIMDE		bruary 2	2003		
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Cost Categories	Contract	Performing		Total	E) / 00	FY 02		FY 03	E) (0 4	FY 04	E)/ 05	FY 05		T	T
	Method	Activity &			FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
24.000	& Type	Location			Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
CAC2S	WR	Center Charle		6.297	0.530	01/02	0.600		0.600		1.000		Continuing		
CAC2S	RCP	Raytheon, San	Diego CA	0.000	4.645	08/02	50.124	03/03	58.431	01/04	55.479	01/05	Continuing		
CAC2S	RCP	SPAWAR		0.100	0.782	11/01	0.000		0.000		6.948	01/05	Continuing		
CAC2S	RCP	EMA, Inc.		0.000	0.126	04/02	0.000		0.000		0.000		0.000		0.126
ADCP	WR	NSWC Crane	, .	1.746	0.107	03/02	0.125		0.125	03/04	0.088	01/05	Continuing		
MACCS SUSTAINMENT	WR	NSWC Crane	, IN	0.000	0.695	03/02	1.000	03/03	0.866	03/04	0.500	10/04	Continuing		
MACCS SUSTAINMENT	CPFF	Lockheed, Ft		0.000	0.000		1.537	01/03	1.317	01/04	0.000		Continuing		
		Northrop Grui	mman	0.000	0.000		0.000		0.000		2.819	01/05	Continuing		
MACCS SUSTAINMENT	RCP	Litton		0.000	1.531	04/02	0.000		0.000		0.000		Continuing	Continuing	
MACCS SUSTAINMENT	RCP	CRI		0.000	0.174	01/02	0.000		0.000		0.000		Continuing	Continuing	
MACCS SUSTAINMENT	CPFF	Mission Resea	ırch	0.000	0.000		0.000		0.000		2.524	1/5	Continuing	Continuing	
SIAP	RCP	MCSC, Quar		11.400	0.000		0.000		9.040	01/04	9.033	01/05	Continuing	Continuing	
AN/TPS-59	C/CPFF	Lockheed,Syr	acuse NY	18.736	4.210	01/02	3.439	03/03	0.562	01/04	0.000		Continuing	Continuing	
AN/TPS-59	RCP	MCSC, Quar	ntico, VA	0.000	5.907	07/02	2.100	04/03	0.000		0.000		0.000	8.007	8.007
TBMCS	MIPR	ESC, Hanso	om AFB	0.280	0.393	03/02	0.000		0.000		0.246	01/05	Continuing	Continuing	
TBMCS	WR	NSWC, Cran	ie, IN	0.000	0.000		0.150	03/03	0.159	03/04	0.200	01/05	Continuing	Continuing	
TAOM	RCP	MCSC, Quar		2.879	0.000		0.000		0.000		0.000	0.000	0.000	2.879	2.879
CTN	WR	NSWC, Cran	ie, IN	1.955	0.000		0.000		7.549	01/04	2.735	01/05	Continuing	Continuing	
CTN	RCP	Raytheon		0.365	0.000		0.000		0.700		1.000	01/05	Continuing	Continuing	
CTN	RCP	Solipsys		1.031	0.000		0.000		0.050	01/04	0.215	01/05	Continuing		
CTN	RCP	Lockheed		0.482	0.000		0.000		0.500	01/04	0.000		Continuing	Continuing	
CTN	WR	NSWC Dahlo	gren	0.590	0.000		0.000		0.025	01/04	1.920	01/05	Continuing	Continuing	
UOC	WR	SPAWAR		4.891	0.000		0.000		0.702	01/04	3.813	01/05	Continuing	Continuing	
UOC	WR	MCSC, Quar	ntico, VA	1.412	0.000		0.000		0.320	01/04			Continuing	Continuing	
UOC	RCP	General Dyn			0.000		0.000		9.582	01/04	8.798	01/05	Continuing	Continuing	
CRITICAL INFRASTRUCTURE	RCP	GovWorks HQ	Herndon VA				2.000	03/03					Continuing	Continuing	
Subtotal Product Develo				52.164	19.100		61.075		90.528		97.318		Continuing	Continuing	
Remarks:									_						
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05	FY 03	FY 03	
	Method	Activity &			FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
CAC2S	WR	MCSC, Quant	ico, VA	0.171	0.128		0.150		0.150				0.000		0.321
CAC2S	WR	MCTSSA, CP	ndltn,CA	0.080	0.010	12/01	0.050	01/03	0.050	01/04	1.983	01/05	Continuing	Continuing	
CAC2S	WR	MCLB Albany	y GA	0.016	0.005	01/02	0.005	01/03	0.005	01/04			Continuing	Continuing	
CAC2S	WR	3 rd MAW San Di	iego, CA	0.016	0.000	01/02	0.005	01/03	0.005	01/04			Continuing	Continuing	
CAC2S	WR	NWSC Crane.		0.577	0.556	06/02	1.000	01/03	1.000	01/04	0.321	01/05	Continuing	Continuing	
CAC2S	WR	MAGCC, 29 I	Palms, CA	0.017	0.005	06/02	0.005	01/03	0.005	01/04			Continuing	Continuing	

CLASSIFICATION

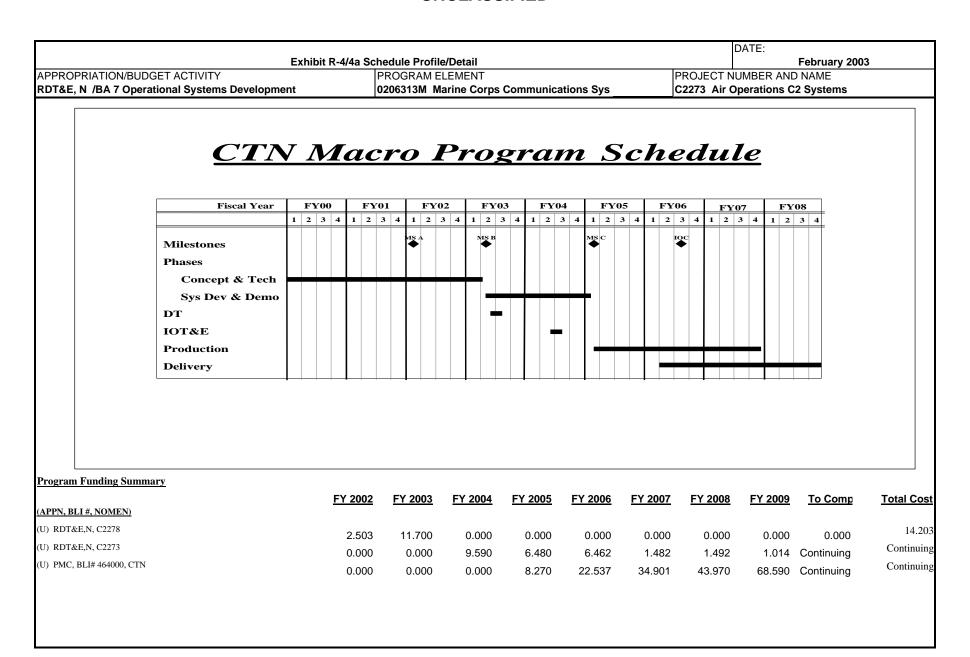
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Exhibit R-3 Cost Analysis			Innoon	E. E. 4E. 15					DD0 150			bruary 2	2003		
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RDT&E, N /BA 7 Operat			0206313M						C2273 A		ions C2 S			1	т
Cost Categories		Performing		Total		FY 02		FY 03		FY 04		FY 05			
	Method	Activity &		_	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location			Cost	Date	Cost	Date	Cost	Date	Cost	Date			of Contract
CAC2S	WR	2nd MAWCh		0.075			0.020		0.020				Continuing		
CAC2S		MarForRes N		0.009	0.000		0.005	01/03	0.005	01/04	0.000		Continuing		
CAC2S	WR	MCAS Yuma	a, AZ	0.012	0.000		0.005	01/03	0.005	01/04	0.000		0.005	0.027	0.027
CAC2S	RCP	MCOTEA		0.000	0.250	01/02	0.125	01/03	0.125	01/04	0.321	01/05	Continuing	Continuing	
CAC2S		MCSC SE&I		0.000	0.000		0.000		0.000		0.000				
MACCS Sustainment	WR	MCTSSA, C	Pndltn,CA	0.000	0.000		0.150	01/03	0.150	01/04	0.000		Continuing	Continuing	
MACCS Sustainment	WR	MCAS Yuma	a, AZ	0.000	0.005	01/02	0.000		0.000		0.000		0.000	0.005	0.005
MACCS Sustainment	WR	MCCES, 29	Palms	0.000	0.007	01/02	0.000		0.000		0.000		0.000	0.007	0.007
MACCS Sustainment	WR	NAVAIR, Pa	x River	0.000	0.036	01/02	0.000		0.000		0.000		0.000	0.036	0.036
MACCS Sustainment	WR	3rd MAW		0.000	0.020	01/02	0.000		0.000		0.000		0.000	0.020	0.020
MACCS Sustainment	MIPR	Warner Robi	ins AFB	0.000	0.118	01/02	0.000		0.000		0.000		0.000	0.118	0.118
MACCS Sustainment	WR	MCSC		0.000	0.033	01/02	0.000		0.000		0.000		0.000	0.033	0.033
ADCP	WR	MCTSSA, C	Pndltn,CA	0.123	0.088	01/02	0.050	01/03	0.038	01/04	0.035	01/05	Continuing	Continuing	
ADCP	WR	MCSC, Quar	ntico, VA	0.040	0.030	01/02	0.030	01/03	0.030	01/04			Continuing	Continuing	
TBMCS	WR	MCTSSA, C	Pndltn,CA	0.050	0.033	01/02	0.000		0.000		0.035	01/05	0.000	0.118	0.118
TBMCS	WR	3rd MAW EI	Toro, CA	0.075	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	WR	MCSC, Quar	ntico, VA	0.103	0.102	01/02	0.040	01/03	0.040	01/04			Continuing	Continuing	
TBMCS	WR	MarForRes N	NO, LA	0.009	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	WR	CG 1st MAW	1	0.001	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	MIPR	ESC, Hanso	om AFB,	0.000	0.000		0.276	01/03	0.273	01/04			Continuing	Continuing	
TBMCS	WR	2nd MAWCh		0.000	0.000		0.015	01/03	0.015	01/04			Continuing		
CTN	WR	MCLB Alban	y GA	0.020	0.000		0.000		0.010	01/04			Continuing		
CTN	MIPR	STA		0.432	0.000		0.000		0.160				Continuing		
CTN	WR	CG 1st MAW		0.014	0.000		0.000		0.005	01/04			Continuing		
CTN	WR	MCSC, Quai	ntico, VA	0.085	0.000		0.000		0.040	01/04			Continuing	Continuing	
Subtotal Support				1.925	1.426		1.976		2.176		2.695		Continuina	Continuing	
Remarks:	•	•						1							

CLASSIFICATION:

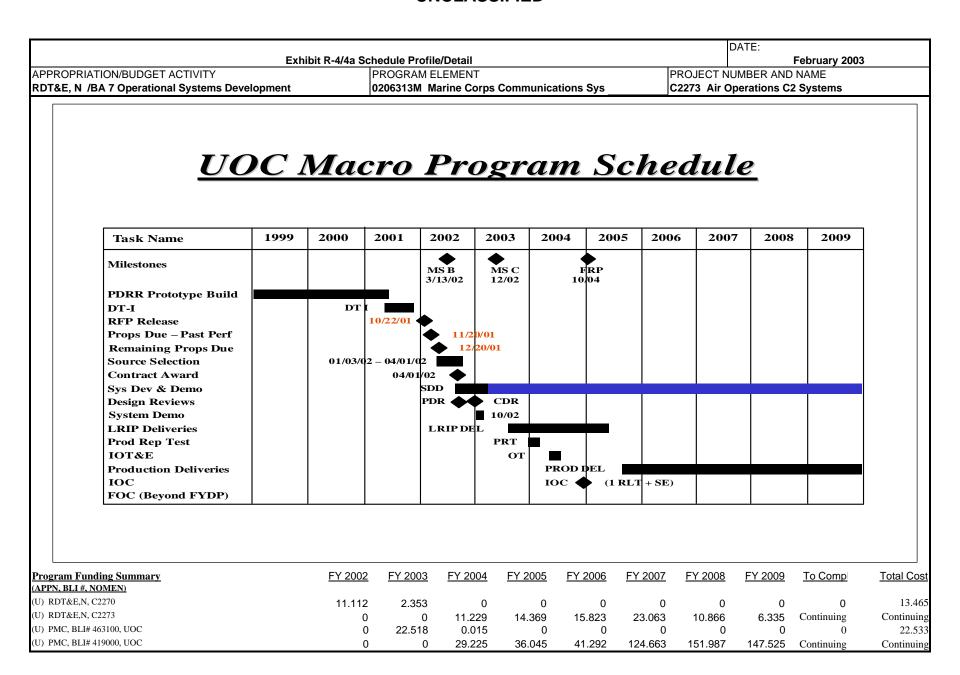
CLASSIFICATION:															
F 1111 B 0 C : 1 : :								DATE:							
Exhibit R-3 Cost Analysis			I						I			bruary 2	2003		
APPROPRIATION/BUDG			PROGRAM								ER AND N				
RDT&E, N /BA 7 Operat			0206313M		orps Com		ons Sys	,	C2273 A		ions C2 S				
Cost Categories		Performing		Total		FY 02		FY 03		FY 04		FY 05	FY 03	FY 03	
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
MACCS Sustainment	RCP	MCTSSA, C		0.000			0.061		0.061				Continuing		
CTN	WR	MCTSSA, C	Pndltn,CA	0.003			0.000		0.032				Continuing		
CTN	WR	MACS-24		0.087	0.000		0.000		0.012				Continuing		
CTN	WR	DCMC		0.022	0.000		0.000		0.002				Continuing		
CTN	WR	Port Huener	ne	0.018			0.000		0.018				Continuing		
Subtotal T&E				0.130	0.000		0.061		0.125		0.000		Continuing	Continuing	
Remarks:															
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05	FY 03	FY 03	
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
TBMCS	CPFF	Logicon		0.309			0.230		0.230		0.279		Continuing		
CAC2S	IDIQ	Logicon		2.734	0.801	10/01	1.000	01/03	1.000	01/04	2.276	01/05	Continuing	Continuing	
CAC2S	FFP	Mevatec, Crst	l City VA	0.250	0.229	07/02	0.800	01/03	0.800	01/04	2.000	01/05	Continuing	Continuing	
CAC2S	RCP	KCI		0.000	0.199	02/02	0.000				0.000		0.000	0.199	
CTN	IDIQ	Logicon		0.591	0.000		0.000		0.487	01/04	0.610	01/05	Continuing	Continuing	
UOC	IDIQ	Logicon		3.396	0.000		0.000		0.525	01/04	1.758	01/05	Continuing		
UOC	FFP	Mevatec, Crst	l City VA	0.064	0.000		0.000		0.100	1	0.000		Continuing		
Subtotal Management				7.344	1.404		2.030		3.142		6.923		Continuing	Continuing	
Remarks:				7.044	1.404	l	2.000	'I	3.142	· I	0.323		Continuing	Continuing	l
itemarks.															
Total Cost					21.930		65.142		95.971		106.936		Continuing	Continuing	
Total Cost					21.930		05.142		95.971		106.936		Continuing	Continuing	
i															
İ															



	Evhihit B) 4/4a Sabadula Bra	iila/Datail					DATE:	February 20
	ATION/BUDGET ACTIVITY /BA 7 Operational Systems Development	PROGRAM 0206313M		s Communi	ications Svs			I NUMBER AN Operations (D NAME
,								<u> </u>	,
	CAC2S SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	Milestone I (FY01)								
	Milestone B		1st qtr						
	Milestone C					4th qtr			
	IOC						2nd qtr		
	FOC							4th qtr	
	PDRR	1st qtr +++							
	SDD		1st qtr++++	+++++++	++++++++	++++++			
	DT				3rd qtr				
	ОТ					3rd qtr			
	Production						1st qtr++++	+++++++	++++++



Exhibi				DATE:	February 200			
PROPRIATION/BUDGET ACTIVITY T&E, N /BA 7 Operational Systems Development	PROGRAM		s Communi	cations Sys	,		NUMBER AN Operations (D NAME
	<u> </u>						•	
CTN SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Milestone A	1st qtr							
Milestone B		2nd qtr						
Milestone C				1st qtr				
IOC					3rd qtr			
Concept & Technolgy Development	++++++	++						
System Development and Demonstration		2nd qtr+++-	+++++++	+				
DT		3rd qtr						
IOT&E			3rd qtr					
Production				1st qtr++++	+++++++	+++++++		
Delivery					2nd qtr +++	+++++++	+++++++	++++++



	4/4a Schedule Pro						February 2003		
RIATION/BUDGET ACTIVITY	PROGRAM						T NUMBER AND NAME		
I /BA 7 Operational Systems Development	0206313M	Marine Corp	s Communi	cations Sys	_	C2273 Air	ir Operations C2 Systems		
UOC SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Milestone B	2nd qtr								
Milestone C		1st qtr							
IOC			4th qtr						
System Development and Demonstration	3rd qtr +++-	+++++++		+++++++	+++++++	+++++++	+++++++	++++	
LRIP Deliveries		3rd qtr++++							
IOT&E			2nd qtr						
Production				3rd qtr ++++	+++++++	+++++++	+++++++	+++++	

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EXHIBIT	R-2a, RDT&E Proje	ct Justification	on			DATE:		February 200)3				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev						MBER AND NAME Iligence C2 Warfare Systems							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost To Complete	Total Program			
Project Cost	8.575	7.987	9.727	5.655	5.468	4.562	4.253	4.633	Cont	Cont			
RDT&E Articles Qty													

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Command and Control (C2) Warfare Project includes the following tactical electronic intercept, direction finding, and electronic attack systems:
 - 1. The Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES) is used to process, sort, analyze, display and correlate electronic surveillance and electronic attack data collected by EA-6B aircraft and maintains the Tactical Electronic Orders of Battle.
 - 2. The Mobile Electronic Warfare Support System, Product Improvement Program (MEWSS-PIP) will be used to collect and process communication and non-communication signals and provide electronic attack capability from a mobile ground platform.
 - 3. Team Portable Collection System (TPCS) upgrade is a semi-automated, team transportable signals intelligence system that provides communications intercept, radio direction finding analysis and reporting to the Marine Air Ground Task Force (MAGTF) Commander.
 - 4. The Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRPs with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a rugerized, modular; man packable system specifically designed utilizing emerging NDI/COTS/GOTS technology for RRP operations, particularity those conducted under the most austere conditions. The RREP SS-3 will be fielded in the 1st Qtr FY04. It will have the added capability to intercept advanced wireless targets identified by the NSA to be operated from remoted positions. SS-3 will extend its life cycle to six years and product improvements will focus on new software and DSP technologies which may be incorporated into the existing system. This approach allows the program to utilize the major components for the entire life-cycle while still keeping pace with emerging Threats and technologies.
 - 5. CESAS (FLAMES) The Communication Emitter Sensing and Attacking System (CESAS) will be a system of COTS/GOTS designed to support the MAGTF Commander in conducting operations. It will provide the capability to effectively sense/detect and attack, through the use of electromagnetic or directed energy, the enemy's communication systems in support of the Commander's Command and Control Warfare plan. The system will replace for the existing AN/ULQ-19 and will assume the mission of sensing and denying the enemy the use of the electromagnetic spectrum, thereby disrupting his command and control system. Though primarily HMMWV-mounted, CESAS will also be capable of both seaborne and airborne deployment and employment, enhancing the Radio Battalion's ability to support Operational Maneuver from the Sea. The CESAS shall provide the capability to operate within the bandwidth of 20 to 1500 MHz (Threshold)k 2MHz to 2500 MHz (Objective) against enemy emitters that use modern modulation schemes.
 - 6. FY02 DERF Funding RREP \$800K. Funds for Test and Evaluation of Digital Receiver Technology (DRT) and Test and approval of Lithium Battery.
 - 7. FY02 DERF Funding FLAMES (CESAS) \$1.5M. Funds are for Research Development, Engineering, Design, Intergrate, build and test 3 Communication Emitter Sensing and Attacking System (CESAS).

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EXHIBIT	R-2a, RDT&E Project Justification	on	DATE:	February 200
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER		PROJECT NUMBER AND NAM	E
DT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	Communications Sys	C2274 Intelligence C2 Wa	rfare Systems
U) B. ACCOMPLISHMENTS/PLANNED PRO	GRAM			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250
DT&E Articles Qty				
CESAS - Perform integration efforts of Develo	opment items to include Antenna and M	ACREWS Training equipme	nt.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.121
DT&E Articles Qty				
CESAS - Research and Development and Integ	gration of software applications unique	to System Control.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.200
DT&E Articles Qty				
CESAS - Research and Development Directed	Energy and Directional Attack Anteni	nas.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.100
DT&E Articles Qty				
CESAS - Begin Research and Development of	training materials and training docum	entation.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.050
DT&E Articles Qtv				
CESAS - Integration of Mission Management	Software with existing ESAS software	to provide dynamic base cap	pability for system software (ESA	S)
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.100
DT&E Articles Qty			-	*****
CESAS - Research and Devlopment of Training	g Equipment; MCREWS modification	n for USO-146 real time sim	ulation equipment to provide a "N	Ailes Gear" type application
or Electronic Attack equipment and Victim Receive			1 1 1	71 11
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.300
DT&E Articles Qtv	0.000	0.000	0.000	0.000
CESAS - Program support and documentation	Development and Maintainance		I	
*	<u> </u>	FV 2000	FV 0004	EV coop
COST (\$ in Millions) accomplishment/Effort Subtotal Cost	FY 2002 0.000	FY 2003	FY 2004 0.000	FY 2005 0.050
CCOMPLISHMENT/Effort Subtotal Cost	0.000	0.000	0.000	U.U5U
ZIII X.E. ATICIOC (ITV	1	l	1	

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EXHIBIT	R-2a, RDT&E Project Justificat	ion	DATE:	Fobruary 200
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBE 0206313M Marine Corps		PROJECT NUMBER AND NAM C2274 Intelligence C2 Wa	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.245	0.000	0.000	0.000
DT&E Articles Qty				
MEWSS PIP: LAV Mobility and Endurance	testing.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.913	0.809	1.000	0.403
DT&E Articles Qty				
MEWSS PIP: System software enhancement	s and Pre-Planned Product Improvement	ent (P3I).		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	3.443	3.144	1.000	0.000
DT&E Articles Qty				
MEWSS PIP: ELINT System enhancements.	·		·	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.000	0.900	3.502	0.300
DT&E Articles Qty				
MEWSS PIP: Operational Readiness enhanc	ements.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.150	0.000	0.000	0.000
DT&E Articles Qty				
TPCS Upgrade: Mod Kit 7 & 5 Test and Eva	duation (MCOTEA).	1		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.150	0.000	0.000	0.000
T&E Articles Qty				
TPCS Upgrade: MASS Phase III SBIR (Sone	etech).	'	- 	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.030	0.000	0.000	0.000
DT&E Articles Qty				
TPCS Upgrade: Mod Kit 7 Road Test (ATC)).	1		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.144	0.000	0.000	0.000
DT&E Articles Qty				
TPCS Upgrade: Program Management suppo	ort.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.000	0.242	0.000	0.000
DT&E Articles Qty				
TPCS Upgrade: System Engineering and Tec	chnical Assistance (SETA) (CSC).	+		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.342	0.000	0.000
DT&E Articles Qty				
TPCS Upgrade: Software upgrades/system e	nhancements.	•	•	

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EXHIBI	IT R-2a, RDT&E Project Justificati	on	DATE:	
				February 20
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER		PROJECT NUMBER AND NAM	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	1	C2274 Intelligence C2 Wa	•
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.690	0.510	1.044	0.923
RDT&E Articles Qty				
TERPES: Continue research on COE complement Integrated Broadcast Service (IBS) to allow TE concertrating on reductions of size, weight, and power than the concertration of the	RPES to receive joint common message			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.537	0.859	1.327	1.021
RDT&E Articles Qty				
corkstation, and system accreditation. COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.800	0.610	1.127	0.950
RDT&E Articles Qty				
TEPP/TSP application); improve overall system pe	erformamance (Tactical Data Correlation	n, etc); continue to research	OF 4 V baseline: research interf	aces and interoperability
requiremnts and solutions for the EA-6B mission pl COST (\$ in Millions)	annng and joint mission planning environment FY 2002	onments and systems.	FY 2004	FY 2005
equiremnts and solutions for the EA-6B mission pl COST (\$ in Millions)	annng and joint mission planning enviro	onments and systems.		
quiremnts and solutions for the EA-6B mission pl COST (\$ in Millions) ccomplishment/Effort Subtotal Cost DT&E Articles Qty	annng and joint mission planning environment FY 2002	onments and systems.	FY 2004	FY 2005
COST (\$ in Millions) CCOST (\$ in Millions) CCCOMPLISHMENT/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support.	annng and joint mission planning environment FY 2002	onments and systems.	FY 2004	FY 2005
equiremnts and solutions for the EA-6B mission pl COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	annng and joint mission planning environment FY 2002	onments and systems.	FY 2004	FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.116	FY 2003 0.415	FY 2004 0.412	FY 2005 0.463
COST (\$ in Millions) CCOST (\$ in Millions) CCCOMPLISHMENT/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2002	Prince on the state of the stat	FY 2004 0.412 FY 2004	FY 2005 0.463 FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002	Prince on the state of the stat	FY 2004 0.412 FY 2004	FY 2005 0.463 FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions)	FY 2002	Prince on the state of the stat	FY 2004 0.412 FY 2004	FY 2005 0.463 FY 2005
COST (\$ in Millions) COST (\$ in Millions) ACCOMPLISHMENT SUBTORIAL COST RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) ACCOMPLISHMENT SUBTORIAL COST RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions)	FY 2002 0.116 FY 2002 0.100 ttack (EA) capability (SS-2).	FY 2003 0.415 FY 2003 0.000	FY 2004 0.412 FY 2004 0.000	FY 2005 0.463 FY 2005 0.000
COST (\$ in Millions) ccomplishment/Effort Subtotal Cost DT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) ccomplishment/Effort Subtotal Cost DT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) ccomplishment/Effort Subtotal Cost DT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) ccomplishment/Effort Subtotal Cost	FY 2002	Prince on the second systems of the second s	FY 2004 0.412 FY 2004 0.000 FY 2004	FY 2005 0.463 FY 2005 0.000
COST (\$ in Millions) ACCOMPLISHMENT SUBTOR A COST (\$ in Millions)	FY 2002	Prince on the second systems of the second s	FY 2004 0.412 FY 2004 0.000 FY 2004	FY 2005 0.463 FY 2005 0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2002	Prince on the second systems of the second s	FY 2004 0.412 FY 2004 0.000 FY 2004	FY 2005 0.463 FY 2005 0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOTS/COTS electronic at	FY 2002 O.116 FY 2002 O.100 ttack (EA) capability (SS-2). FY 2002 O.257 attack (EA) capability (SS-3).	FY 2003 0.415 FY 2003 0.000 FY 2003 0.156	FY 2004 0.412 FY 2004 0.000 FY 2004 0.000	FY 2005 0.463 FY 2005 0.000 FY 2005 0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty TERPES: Program Management Support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOT/COTS electronic at COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty RREP: Integration GOTS/COTS electronic at COST (\$ in Millions)	FY 2002	FY 2003 0.415 FY 2003 0.000 FY 2003 0.156 FY 2003	FY 2004 0.412 FY 2004 0.000 FY 2004 0.000 FY 2004 0.000	FY 2005 0.463 FY 2005 0.000 FY 2005 0.000 FY 2005
COST (\$ in Millions) ACCOMPLISHMENT SUBTOR A COST (\$ in Millions)	FY 2002	FY 2003 0.415 FY 2003 0.000 FY 2003 0.156 FY 2003	FY 2004 0.412 FY 2004 0.000 FY 2004 0.000 FY 2004 0.000	FY 2005 0.463 FY 2005 0.000 FY 2005 0.000 FY 2005

	UNCLASSIFIED													
EXHIBIT R-2	a, RDT&E Project	Justification				DATE:	F	ebruary 200	3					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEM 0206313M Mai			ns Sys		MBER AND NAME								
(U) PROJECT CHANGE SUMMARY:														
	FY2002	FY2003	FY2004	FY2005										
(U) FY 2003 President's Budget:	9.147	5.732	4.209	5.076										
(U) Adjustments from the President's Budget:														
(U) Congressional/OSD Program Reductions	-0.025	-1.145	0.036	-0.382										
(U) Congressional Rescissions														
(U) Congressional Increases		3.400												
(U) Reprogrammings	-0.237		5.490	0.968										
(U) SBIR/STTR Transfer	-0.185													
(U) Minor Affordability Adjustments	-0.125		-0.008	-0.007										
(U) FY 2004 President's Budget:	8.575	7.987	9.727	5.655										
CHANGE SUMMARY EXPLANATION:														
(U) Funding: See Above.														
(U) Schedule: Not Applicable.														
(U) Technical: Not Applicable.														
(U) C. OTHER PROGRAM FUNDING SUMMARY:	1167													
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost				
(U) PMC BLI 463600 Modification Kits MEWSS	2.617	25.590	20.786	2.528			0.000	0.000	Continuing	Continuing				
(c) Thie BBI 100000 Houndard This HB 118	2.017	20.000	20.700	2.020	1.002	0.011	0.000	0.000	commung	Commung				
(U) PMC BLI 474700 Intell Suppt Eq RREP	0.000	3.939	0.000	0.000	4.194	0.000	0.000	4.228	0.000	12.361				
(U) PMC BLI 474700 Intell Suppt Eq TPCS-MPC	0.000	0.000	0.000	7.086	8.086	7.771	5.929	0.275	0.000	29.147				
(U) PMC BLI 474900 Mod Kits INTEL TERPES	1.656	0.000	2.828	0.000	3.022	0.000	3.182	0.000	0.000	10.688				
(U) PMC BLI 463600 FLAMES (CESAS)	0.000	2.936	0.000	1.000	4.194	4.099	0.488	1.385	0.000	14.102				
(U) Related RDT&E:						-								
, ,														
(U) (U) PE 0305885G (Tactical Cryptologic Program)														

UNCLASSIFIED									
EXHIBIT R-2a,		DATE:							
			February 2003						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUM	MBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2274 Intelli	gence C2 Warfare Systems						

- (U) D. ACQUISITION STRATEGY TERPES: The acquisition of components for the TERPES upgrade refreshes will maximize the use of existing equipment, NDI/COTS/GOTS/GFE equipment and software. The integration effort for TERPES hardware and software will be accomplished through the TERPES System Support Activity, Naval Air Warfare Center Weapons Division, Pt. Mugu, CA. These efforts are directed by the Program Manager for Intelligence Systems, MAGTF C4ISR Product Group, Marine Corps Systems Command. This strategy accomplishes several goals: standardization of equipment and software; use equipment that can be acquired and fielded quickly, reduction of logistics requirements, and reduce cost of software maintenance.
- (U) D. ACQUISITION STRATEGY MEWSS PIP: The MEWSS PIP initiates Marine Corps Systems Command-administered contracts as follow-on to the Army CECOM Intelligence and Electronic Warfare Common Sensor (IEWCS) contract used for development/fielding of the three MEWSS PIP LRIP vehicles. These contracts are sole source to Lockheed Martin Systems Integration in Owego, New York.
- (U) D. ACQUISITION STRATEGY TPCS: The ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. The contract is a Contract Cost Plus Fixed Fee.
- (U) D. ACQUISITION STRATEGY RREP: The RREP will incorporate and integrate cutting edge technologies through the use of Commercial off the Shelf (COTS) components to include Marine Corps Common Hardware components and Government off the Shelf (GOTS) DII COE compliant software. Contract is Cost Plus Fixed Fee (CPFF).
- (U) D. ACQUISITION STRATEGY CESAS: Due to the technical maturity of the equipment available, coupled with the relative low risk of the program, an AAP will be pursued. System engineering will be performed by SPAWAR, Charleston, SC. AN/USQ-146 systems will be acquired via a sole source contract between Rockwell Collins and MCSC. Configuration of equipment to meet required operation capabilities will be performed by Rockwell-Collins prior to delivery. Required modification kits will be developed by Rockwell-Collins as part of the AN/USQ-146 purchase, using designs developed by SSCC. Fielding will be conducted using support from Rockwell-Collins, a support contractor and SSCC. ILS planning and life cycle supportability will be implemented by MCSC and MARCORLOGBASES, Albany GA. Contractor Logistics Support will be used for depot support of the system.

(U) E. MAJOR PERFORMERS:

MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM, PRODUCT IMPROVEMENT PROGRAM (MEWSS-PIP)

FY02 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Aug 02

EDO Reconnaissance and Surveillance Systems, Morgan Hill CA, Funds for ELINT enhancements Sep 02

Penn State Univ. State College. PA Funds for ELINT enhancements Sep 02

FY03 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 02

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Software enhancements and P3I. Nov 02

MCOTEA, Quantico, VA - Provide funds for operational Assessment, Mar 03.

IEWTD, Ft Huachuca, AZ - Provide funds for Developmental Testing Support, Jan03

EDO Reconnaissance Systems and Surviellance System, Morgan Hill CA, Provide funds for Elint Enhancements, Mar 03

Penn State Univ, State College, PA - Provide funds for ELINT Enhancements Mar 03

FY04 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 03

EDO Reconnaissance and Surveillance Systems, Morgan Hill CA, Funds for ELINT enhancements Nov 03

Penn State Univ, State College, PA Funds for ELINT enhancements Nov 03

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements. Nov 03

FY05 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 04

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements. Nov 04

TEAM PORTABLE COLLECTION SYSTEM (TPCS) Upgrade

FY02 HTL, Bedford NH Funds for Joint effort with PM-CS for SS-B development

MARCORSYSCOM, Quantico VA Funds for program management and operational test support.

FY03 NORTHGROP GRUMMAN INFORMATION TECH (NGIT), Stafford VA, SETA support for systems engineering and program management.

COMPUTER SCIENCE CORP, Dumfries, VA SETA support for Configuration Management (CM)

UNCLASSIFIED									
EXHIBIT	R-2a, RDT&E Project Justification	DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME							
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2274 Intelligence C2 Warfare Systems							

(U) E. MAJOR PERFORMERS (Continued):

TACTICAL ELECTRONIC RECONNAISSANCE PROCESSING AND EVALUATION (TERPES)

FY02 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research, software security certification and accreditation.

LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software to maintain compatibility with EA-6B Improved Capabilities (ICAP) II and III aircraft.

CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance and Tactical Network Protocol (TNP).

FY03 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware and software integration research.

LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.

CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance, hardware; software configuration management, and software testing

FY04 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research.

LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.

CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance; research of interface software for Integrated Broadcast Receivers (IBRs).

FY05 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research.

LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.

CALFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance; research of interface software for Integrated Broadcast Receivers (IBRs).

RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP)

FY02 MARCORSYSCOM, Quantico VA Funds for program management and operational test support. Oct 02

FY02 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 02

FY03 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 03

FY04 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds engineering and program management support for Suite-3. Nov 04

FY05 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds engineering and program management support for Suite-3. Nov 05

Edilio Do Ocat Acabaia							DATE:				-1	0000		
Exhibit R-3 Cost Analysis APPROPRIATION/BUDGET	A OTIV (ITV	DDOODANA		-				IDDO IE	NT NIL IN 45		ebruary	2003		
								PROJECT NUMBER AND NAME C2274 Intelligence C2 Warfare Systems						
RDT&E, N /BA 7 Operationa			0206313M Marine Corps Communication Systems					C2274 II	ntelligen IFY 04	ce C2 Wa		stems	1	1
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MEWSS	CPFF	Lockheed Martin	11.216		11/01	4.853	11/02	5.502	11/03	0.703	11/04	Continuing	Continuina	
TPCS Upgrade	RCP	HTL	0.660	0.150	01/02	0.342	01/03	3.302	11/03	0.703	11/04	Continuing	Continuing	
TERPES	RCP	NG0-CAL Mic	0.000	0.130		0.610	10/02	1.044	10/03	0.923	10/04	Continuing	Continuing	
TERPES	RCP	Lockheed Martin	0.202		06/02	0.859	10/02	1.127	10/03	1.021	10/04	Continuing	Continuing	
TERPES	WR	NAWC, Pt. Mugu CA	2.089		01/02	0.389	10/02	1.327	10/03	0.950	10/04	Continuing	Continuing	
TERPES	RCP	PRB/COMPTEK	2.069	0.090	06/02	0.369	10/02	1.327	10/03	0.950	10/04	Continuing	Continuing	
						0.121	10/02	1						
RREP	WR	MCSC, VA		0.025	10/02	0.450	00/00	0.045	00/04	0.404	00/05	Continuing	Continuing	
RREP	RCP	NSWC, Crane		0.332	01/02	0.156	02/03	0.315	02/04	0.424	02/05	Continuing	Continuing	
CESAS	WR	SPAWARSYSCEN								0.250	10/04	Continuing	Continuing	
CESAS	FFP	DAC, Wdbg								0.121	10/04	Continuing	Continuing	
CESAS	CPFF	Antenna Res, MD								0.200	10/04	Continuing	Continuing	
CESAS	CPFF	Radio Recon Tech								0.100	10/04	Continuing	Continuing	
CESAS	FFP	BTG/Titan, Fairfax Va								0.050	10/04	Continuing	Continuing	
CESAS	T&M	RAS Eng Campbell,CA								0.100	10/04	Continuing	Continuing	
Subtotal Product Developme	nt		14.502	7.663		7.330		9.315		4.842		Continuing	Continuing	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
TPCS Upgrade	WR	MCSC	0.436			0.242	10/02					Continuing	Continuing	
TPCS Upgrade	RCP	ARMY		0.040	12/01							Continuing	Continuing	
TPCS Upgrade	WR	SPAWARSYSCEN		0.045	12/01							Continuing	Continuing	
TERPES	WR	NAWCWPNS, Pt Mugu	0.199	0.200	01/02							Continuing	Continuing	
TERPES	WR	NG-IT	0.150	0.113	10/01	0.355	10/02	0.312	10/03	0.363	10/04	Continuing	Continuing	
TERPES	RCP	DAC, Wdbg	0.677	0.075	06/02	0.060	10/02	0.100	10/03	0.100	10/04	Continuing	Continuing	
CESAS	WR	NG-IT Stafford, VA								0.300	10/04	Continuing	Continuing	
Subtotal Support			1.462	0.712		0.657		0.412		0.763		Continuing	Continuing	
Remarks:	',													•
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
MEWSS	RCP	Army		0.200	12/02									
Subtotal T&E			0.000	0.200		0.000		0.000		0.000		Continuing	Continuing	
Remarks:	10 11	ID and a man's an	IT. (.)		IEV 00	1	IEV 00		IEV. 0.4	1	IEV/ 05	1		1
Cost Categories	Contract	Performing	Total PY s	FY 02	FY 02	FY 03	FY 03	FY 04	FY 04	FY 05	FY 05	Cost to	Total	Torget Value
	Method & Type	Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost to	Cost	Target Value of Contract
CESAS	WR	MCSC	JUJI	0031	Date	0031	Date	JUSI	Date	0.050	10/04	Continuing	Continuina	
Subtotal Management	V V I \	IVIOGO	0.000	0.000		0.000		0.000	1	0.050		0.000		
			0.000	0.000		0.000	l	0.000	1	0.050	1	0.000	0.050	<u> </u>
Remarks:	1			0.575	1	7.007	ı	9.727	d .	F CCC	1	Continuis	Continuis	1
Total Cost	1			8.575		7.987	L	9.727	1	5.655	1	Continuing	Continuing	1

Exhibit 4/4a Schedu	ule Profile/Detail	DATE:					
	February 2003						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2274 Intelligence C2 Warfare Systems					

UNCLASSIFIED

MEWSS PIP Schedule



	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
IER Published	A							
Red Team Assessment								
Program Decision Brief								
IOT&E Deficency Analysis								
IO T&E Fixe s								
DT								
Delivery & Training								
M EWSS PIP Op Assessment								
OA Quicklook Report								
Production Decision (MS-C)								
Production Award		_						
Contractor Logistics Support								
Build PIPs 4-6								
Basing & Fielding Decision								
IOC								
FOC								
Legacy Repairs & Support								
Legacy Upgrades								

Program Funding Summary (APPN, BLI #, NOMEN)	<u>FY 2002</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	4.601	4.853	5.502	0.703	0.470	0.000	0.000	0.000	0.000	16.129
(U) PMC, BLI# 463600 Mod Kits MEWSS	2.617	25.590	20.786	2.528	1.352	0.511	0.000	0.000	Continuing	Continuing

	ON/BUDGET ACTIVITY	PROGRAM ELEMENT		antine Cont			DATE: February 2003 PROJECT NUMBER AND NAME					
DI&E, N /BF	A 7 Operational Sys Dev MEWSS-PIP SCHEDULE		ps Communication Systems FY 2002 FY 2003 FY 2004 FY 2005			C2274 Intelligence C2 Warfare Systems FY 2006 FY 2007 FY 2008 FY 2009						
	Developmental Testing		4Q	1Q/2Q	1 1 200 1	1 1 2000	1 1 2000	1 1 2007	1 1 2000	1 1 2000		
	Operational Assessment			2Q								
	MS C			3Q								
	Full Rate Production			3Q								
	Contractor Logistics Support (C	CLS)		3Q								
	Field System 1-3			4Q								
	IOC			4Q								
	Production System 4-6			4Q								
	Field System 4-6				3Q	1Q						
	FOC					1Q						

	Exhibit 4/4a Sc	chedule Profil	e/Detail					DATE:	F	ebruary 2003	······································	
	PROPRIATION/BUDGET ACTIVITY T&E, N /BA 7 Operational Sys Dev		AM ELEMENT M Marine Co		nication Sys	tems		PROJECT N	IUMBER ANI	NAME		
ND.	Tall, it iba i operational by bev	0200313				CHEDUL	E	OZZI 4 IIICII	igenee O2 v	rariare byst	CIIIO	
	EVENT	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10		
	SS-3 MS-B	3Q										
	SS-3 MS-C		3Q									
	SS-3 IOC/FOC			1Q								
	SS-3 PIP MS B			1Q								
	SS-3 PIP MS C					2Q						
	SS-3 PIP IOC/FOC						1Q					
	SS-4 MS B						2Q					
	SS-4 MS C								2Q			
	SS-4 IOC/FOC									1Q		
(AP (U)	<u>gram</u> PPN, BLI #, NOMEN) RDT&E,N PMC BLI 474700 Intell Suppt EQ RREP			002 FY 20 357 0.1 000 3.9	56 0.31	15 0.424	1 0.432	0.435	FY 2008 0.441 0.000	FY 2009 0.452 4.228	To Compl Continuing 0.000	Total Cost Continuing 12.361

Exhibit 4/4a So	chedule Profile/Detail					DATE:	F	ebruary 200	13
PRIATION/BUDGET ACTIVITY E, N /BA 7 Operational Sys Dev PROGRAM ELEME 0206313M Marine			cation Syste	ems		PROJECT N C2274 Intel	NUMBER AN	ID NAME	
RREP UPGRADE SCHED	ULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
SS-3 MS B		3Q							
SS-3 MS-C			3Q						
SS-3 IOC/FOC				1Q					
SS-3 PIP MS B				1Q					
SS-3 PIP MS C						2Q			

EXHIBIT R-2a	, RDT&E Proj	ect Justificat	ion			DATE:				
						February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROJECT NUMBER AND NAME								
RDT&E, N /BA-7 Operational Sys Development	0206313M N	Marine Corps	Communicat	tion Systems		C2275 Radio	Systems			
									Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	0.000	0.584	8.881	8.698	4.878	4.337	4.226	3.548	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Joint Tactical Radio System JTRS is a OSD-mandated program a Family of Joint Multi-Channel/Multi-Mode, Software-Defined, Reprogrammable Tactical Radio Systems. Providing high capacity line of sight (LOS) and beyond line of sight (BLOS) plain and secure voice, data, and video while operating in frequency bands from 2 MHz to 2 GHz. Providing network connectivity across the radio frequency (RF) spectrum and providing the means for required tactical digital information exchanges.
- Block 1: Interim Handheld/Manpack and Data Radios. Includes 3 radio systems: the High Frequency Man-pack Radio (HFMR), the Tactical Handheld Radio (THHR), and software upgrades/maintenance for Enhanced Position Location Reporting System (EPLRS) radios.
- Block 2: Ground Vehicular/Rotary Wing, scaleable to 6 Channels (US Army Cluster 1): Expeditionary Maneuver Warfare Air Ground Over the Horizon (EMW A/G OTH) Communications Vehicle (initially replacing systems beyond lifecycle: AN/MRC-138, AN/VRC-83), and C2 platforms that require multiple channels in multiple bands (LAV-C2, UOC, and AAAV).
- Block 3: Handheld/Man-pack, 1 or 2 Channels (USSOCOM Cluster 2): Multipurpose Handheld and Manpacks (initially replacing systems beyond lifecycle: AN/PRC-68, PRC-104, PRC-113). These radios should be available in FY06-FY07.
- Tactical Elevated Antenna Mast System (TEAMS) is a single HMWWV mounted 100' telescoping antenna mast replacing the two AN/MRC- 142 50' antennas. TEAMS provides a safer more efficient mast to allow up to twice the current height capability to overcome obstructions caused by over head canopy and obstructing ridges which eliminates the need to set up additional relay sites. TEAMS will be employed with AN/MRC-2 then JTRS when the AN/MRC-142 is replaced by JTRS.
- (U) Tactical Satellite Comm Terminal LMST- An Air Force program with PM Milsatcom (Army) managing contract with Harris Corp. The Lightweight Multiband Satellite Terminal (LMST) is a triband SATCOM terminal mounted in transit cases that will augment the current GMF SATCOM and at the same time, provide a commercial satellite capability. SHF Replacement (Wideband SHF) This is a DoD (Army lead) Quad-band SHF satellite communications terminal that is intended to replace the current GMF satellite communications terminals. It will be a quad-band, HMMWV mounted terminal capable of taking full advantage of the Wideband Gapfiller satellite constellation. Its mission is to support all USMC satellite communications requirements including MAGTF commanders, FICCS, and MEU deployments. It will provide the USMC with DoD and Allied interoperability.
- (U) MILSTAR Advanced Satellite Terminal (SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINAL (SMART-T)) This terminal operates with MILSTAR compatible communications payloads and transmits an extremely high frequency (EHF) uplink signal and receives a super high frequency (SHF) downlink signal to provide the MAGTF commander with robust, low probability of intercept, jam resistant communications.
- (U) Legacy Communications/Electronics Modifications and Sustainment encompass post production sustainment of fielded tactical communication and networking systems and service life extension programs (SLEP) of aging communications equipment reaching the end of there lifecycle. The post production sustainment provides necessary engineering and logistic support to maintain the existing operational capability above threshold operational readiness. The support provides equipment specialists, configuration management, supply support coordination and control, depot maintainance control and warranty administration. There are three SLEP/supportability upgrades required for this POM cycle. These are the AN/TRC-170 Troposhperic Scatter Microwave Radio Terminal, the Unit Level Circuit Switch (ULCS) and the AN/PSC-5 "Shadowfire" modification. The AN/TRC-170 provides secure digital trunking between major nodes of the TRI-TAC communications network with a range of over 100 miles and will reach it's end of service life in FY05. The ULCS (TTC-42, SB-3865 and SB-3614) require sustainment and modifications to continue the operating forces capability until TSM is fielded. The AN/PSC-5 Mod allows for the fielded AN/PSC-5 to supported past FY04.
- (U) Radio Battalion Mods DERF funding \$2M. Funds are for Test and Evaluation of the Testbed-Sigint Adaptable Mobile Shelter to include Signal Simulators and Fuel Cells.

EXHIBIT R-2	a, RDT&E Project Justifica	tion	DATE:						
				February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N			PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps	Communication Systems	C2275 Radio	Systems					
(U) B. ACCOMPLISHMENTS/PLANNED PROGR	RAM:								
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.237	1.100	1.100					
RDT&E Articles Qty									
JTRS: Migration/Integration Studies and Analysis	. Manpack/Handheld JTRS.								
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.347	0.619	0.619					
RDT&E Articles Qty									
JTRS: Program Support and Management.	•	•							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.472	4.578					
RDT&E Articles Qty									
JTRS: Gnd Vehicular Cluster 1 EMD Radio Man	ufacturing.		•						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.725	1.313					
RDT&E Articles Qty	33333	33333	****						
JTRS: Gnd Vehicular (Cluster 1) Early Operation	al Assessment (EOA), Develop	omental and Operational Testir	ng (DT/OT).						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.830	0.844					
RDT&E Articles Qty	0.000	0.000	0.000	0.011					
JTRS: Technical and Engineering Support.	-	1	1						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.244					
RDT&E Articles Qty	0.000	0.000	0.323	0.244					
JTRS: Contract Advisory and Assistance Service									
		EV 2002	EV 2004	EV 2005					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.000	FY 2003 0.000	FY 2004 0.560	FY 2005					
RDT&E Articles Qty	0.000	0.000	0.000						
TSCT (LMST): Integration and update support d	ocumentation								
		F\/ 0000	F)/ 000 /	EV 2005					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.100						
RDT&E Articles Qty									
TSCT (LMST): Contract support costs.				,					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.150						
RDT&E Articles Qty									
TSCT (LMST): MCTSSA interoperability/DISA	on-orbit tests.								
(U) Total \$	0.000	0.584	8.881	8.698					

EXHIBIT R-2a	, RDT&E Projec	t Justificatio	n			DATE:				
							Fe	bruary 2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUM	BER AND NA	ME	F	PROJECT NUI	MBER AND N	AME		
RDT&E, N /BA-7 Operational Sys Development	0206313M Ma	rine Corps Co	ommunicatio	n Systems	C	2275 Radio S	Systems			
(U) PROJECT CHANGE SUMMARY:										
	FY2002	FY2003	FY 2004	FY 2005						
(U) FY 2003 President's Budget:	0.000	0.597	1.393	1.787						
(U) Adjustments from the NAVCOMPT Budget:										
(U) Congressional/OSD Program Reductions			-0.396	-0.356						
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings			7.884	7.267						
(U) SBIR/STTR Transfer										
(U) Minor Affordability Adjustment		-0.013								
(U) FY 2004 President's Budget:	0.000	0.584	8.881	8.698						
CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY 04 and FY05 is (U) Schedule: Not Applicable. (U) Technical: Not Applicable.	due to realignme	ent of progran	ns within the N	/larine Corps.						
(U) C. OTHER PROGRAM FUNDING SUMMARY	:									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) PMC, BLI# 464300 Jt Tactical Radio Sys	0.000	0.000	13.919	33.084	32.499	90.903	80.657	73.196	Continuing	Continuing
(U) PMC BLI# 463300 Radio Systems (LMST)	0.000	4.944	0.000	5.250	0.290	0.090	0.000	0.000	0.000	10.574

(U) Related RDT&E: Not Applicable

(U) PMC BLI# 463300 LEGACY COMM/ELECT

(U) D. ACQUISITION STRATEGY:

- (U) Tactical Satellite Comm Terminal LMST- The acquisition strategy for the LMST is based on current developmental efforts of both the Army and Air Force to develop full duplex Kaband satellite capabilites in support of the Wideband Gapfiller satellites. The LMST integration program leverages off the current efforts and integrates the full duplex Kaband capabilites into existing terminals.
- (U) Milstar (SMART-T) The acquisition strategy for the SMART-T is aligned with the lead service's strategy. The Advanced Extremely High Frequency (AEHF) upgrade will increase throughput and provide interoperability between services.

0.000

3.772

7.203

10.221

9.246

0.000

0.000

6.240 Continuing

Continuing

EXHIBIT R-2a,	DATE:	
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems	C2275 Radio Systems

(U) JTRS - JTRS is the next generation radio systems to provide required transformational capabilities while leveraging modern technologies to resolve interoperability and lifecycle cost issues. The procurement of JTRS will be blocked by capabilities available at the time of the requirement. Block 1 provides required Handheld/Manpack lifecycle replacements for aging dismounted systems and freeing Receiver-Transmitters (RT) for spare support of ground vehicular systems until Block 2, Ground Vehicular (Cluster 1 JTRS) radio systems can be procured. Also in Block 1, PDSS of EPLRS will maintain its compatibility with JTRS and reduce its overall lifecycle cost. With JTRS Block 2 and 3, the functional capabilities of today's radios are provided via software. By developing a standardized radio architecture, the same software running in one radio system can be used in radios developed by separate manufacturers, greatly reducing interoperability challenges that have resulted from separate developments. The U.S. Army is beginning procurement of Ground Vehicular radio systems built to the JTRS architecture to provide improved mobile communications support to computer-based command and control systems.

These radios will also support Marine Corps requirements for high-capacity, dynamic, mobile, networked communications as the Marine Corps continues to automate its processes. Integration of these radios into C2 platforms, and begin procurement of Ground Vehicular JTRS to replace aging HF Over the Horizon (OTH) (AN/MRC-138) and UHF Air/Ground (AN/VRC-83) radio systems. The integration of JTRS into the AAAV will increase its C4I capability and eliminate the cost of retrofitting the AAAV for JTRS Life Cycle Cost Reduction. JTRS will reduce development costs for enhancements to future radio system implementations, reduce maintenance support costs by reducing the number of types of radio systems in the inventory, and reduce operating costs through the employment of multi-function radio systems.

(U) E. MAJOR PERFORMERS:

FY04 TSCT (LMST) HARRIS COMM SYS, MELBOURNE, FL K-BAND INTERGRATION, OCT03.

FY03 JTRS: TBD PROGRAM SUPPORT, OCT 02.

FY04 JTRS: BOEING, ANAHEIM, CA,MAJOR H/W SUB, HARRIS, ROCHESTER, NY,BAE, WAYNE NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 04.

FY05 JTRS: BOEING, ANAHEIM, CA ,MAJOR H/W SUB, HARRIS, ROCHESTER, NY ,BAE, WAYNE NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 05.

Exhibit R-3 Cost Analysis									DATE:			February 2003			
APPROPRIATION/BUDGET ACTIV	ITY	PF	ROGRAM ELEMENT					PROJEC1	T NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys			06313M Marine Corp	. Communi	cation S	retame			Radio Systems						
Cost Categories	Contract	Performing	Total	Communi	FY 02	Jacons	FY 03	CZZIJ Ka	FY 04		FY 05	1			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
LMST Ka-band Integration	FFP	Harris Corp, Flori		000.	Date	0001	Bato	0.560	10/03	000.	Date	Continuing			
<u> </u>	CPAF	TBD		0.000		0.000		3.768		4.834	40/04	<u> </u>		1	
JTRS EMD Radio Manufacturing	CPAF	IRD	0.000	0.000)	0.000		3.700	06/02	4.054	10/04	Continuing	Continuing		
Subtotal Product Development			0.000	0.000	1	0.000		4.328		4.834		Continuing	Continuing		
Remarks:			0.000	0.000	′1	0.000		4.320		4.004		Continuing	Continuing		
Nomans.															
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05				
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
LMST Program travel	Allot	MARCORSYSCO						0.025	10/03			0.000			
LMST Technical support	FFP	NGIT, Stafford, V	A					0.075	10/03			0.000			
JTRS Integration/Migration	TBD	TBD				0.237	12/03	1.105	12/03	1.100	10/04	Continuing			
JTRS Tech & Eng Support	TBD	TBD						0.830	10/03	0.844	10/04	Continuing	Continuing		
Subtotal Support			0.000	0.000)	0.237		2.035		1.944		Continuing	Continuing		
Remarks:															
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05				
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
LMST Integration tests	WR	MCTSSA						0.080	07/03			0.000		0.08	
JTRS Gnd Veh EOA/DT/OT	WR	MCOTEA						0.100	12/03	0.100	10/04	Continuing			
JTRS Gnd Veh EOA/DT/OT	MIPR	PM TRCS, CECC	DM					1.420	12/03	1.013	10/04	Continuing	Continuing	5.75	
LMST DISA on-orbit tests	MIPR	DISA						0.070	05/03						
Subtotal T&E			0.000	0.000)	0.000		1.670		1.113		0.000	2.783		
Remarks:	•					•		•			•				
Cost Categories	Contract	Performing	Total		FY 02		FY 03	1	FY 04	1	FY 05			1	
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
JTRS Program Support	TBD	TBD	0000	2301	Date	0.347	10/02	0.523	12/03	0.563	10/04	Continuing	Continuing	c. Communi	
JTRS Contract Adv & Assist	TBD	TBD				0.041	.5/02	0.325	12/03	0.244	10/04	Continuing	Continuing		
Cultitatal Management			2.000	0.000		0.04		0.040		0.007		0.000	0.000		
Subtotal Management	1		0.000	0.000	7	0.347		0.848	1	0.807		0.000	2.002		
Remarks:															
Total Cost		1		0.000		0.584		8.881		8.698		Continuing	Continuing		

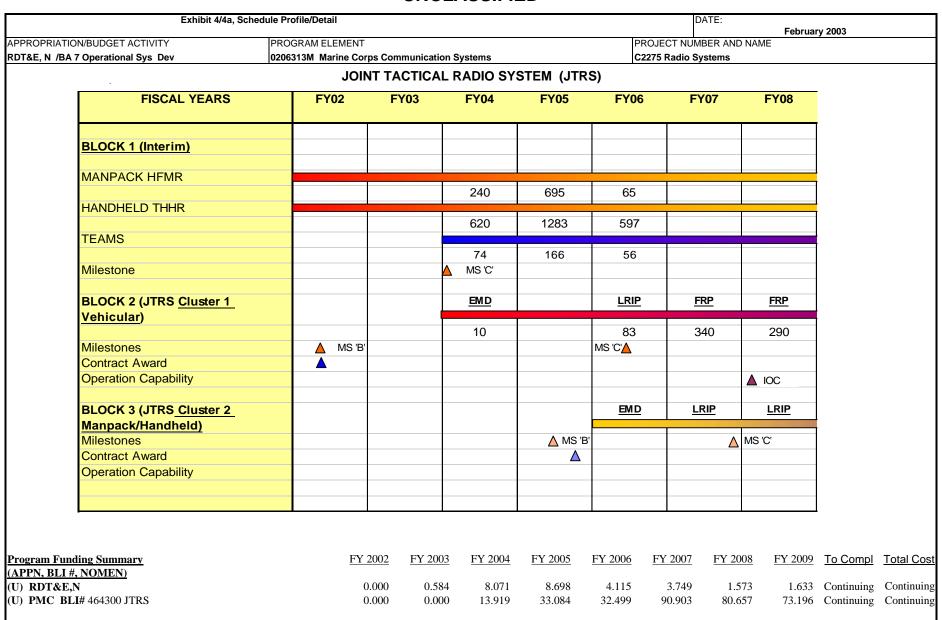


Exhibit 4/4	a, Schedule Profile/Detail		DATE:								
ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT					February 2003 PROJECT NUMBER AND NAME					
RE, N /BA 7 Operational Sys Dev	0206313M Marine Cor	ps Communication	Systems				2275 Radio Systems				
JTRS SCHEDULE DET	ΓAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
Milestone 'B' (Block 2 Gnd \	Veh)	24 Jun 02									
Contract Award (Block 2 G	nd Veh)	24 Jun 02									
SRR (Block 2 Gnd Veh)		4Q									
PDR (Block 2 Gnd Veh)		4Q									
IBR (Block 2 Gnd Veh)			1Q								
PMR (Block 2 Gnd Veh)			1Q								
CDR (Block 2 Gnd Veh)			2Q								
Early Operational Assessme	ent (Block 2 Gnd Veh)			4Q							
DT/OT (Block 2 Gnd Veh)					4Q						
Milestone 'C' (Block 2 Gnd \	Veh)					2Q					

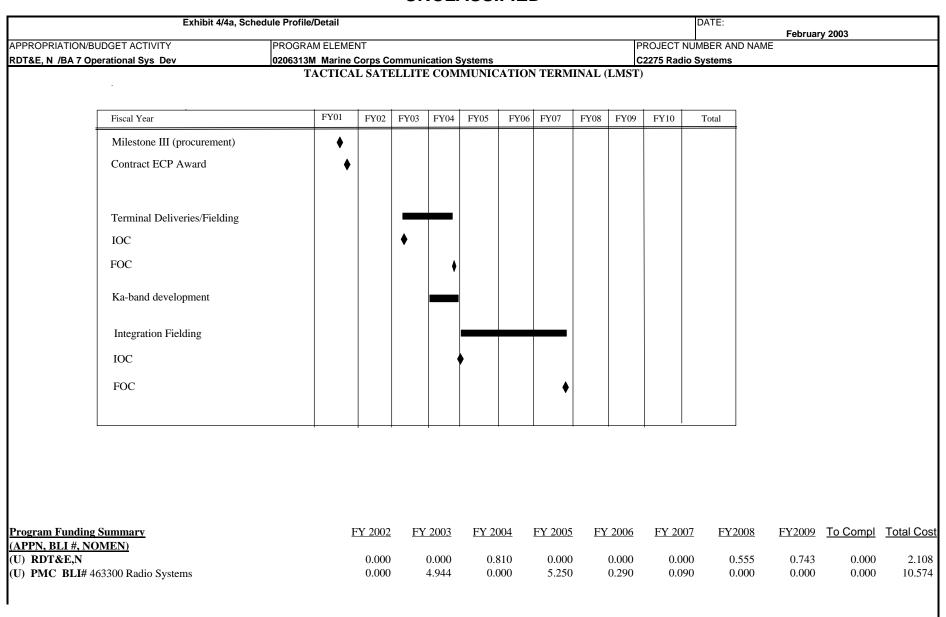


	Exhibit 4/4a, Sched	lule Profile/Detail						DATE:	Fahana	2002	
	BUDGET ACTIVITY Deprational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Co	ommunication	Systems			PROJECT NU	JMBER AND NA Svstems	AME	ry 2003	
,,	LMST SCHEDULE DETAIL	, , , , , , , , , , , , , , , , , , ,	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	Terminal Deliveries										,
	IOC			2ndQtr							,
	FOC				4thQtr						,
											,
	Ka-band Development				1st-4thQtr						
	Ka-band Integration										
	IOC					1stQtr					,
	FOC							4thQtr			,
											,
								<u> </u>			
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EXHIBIT R-2a, RD7		DATE:		Februa	ry 2003					
		PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME								
RDT&E, N /BA-7 Operational Sys Dev	0206313M M	arine Corps C	ommunication	ns Sys	C2276 Communications Switching & Control Systems					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost To Complete	Total Program
Project Cost	1.427	4.513	6.381	3.815	4.675	3.921	4.042	3.428	Continuing	Continuing
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) The Joint Network Management System (JNMS) is a Combatant Commander, Joint Task Force (CJTF) communications planning and management system. It provides communication planners with the capabilities to conduct high level planning; detailed planning and engineering; monitoring; control and reconfiguration; spectrum planning and management; and security of systems and networks supporting joint operations. The Combatant Commander, CJTF, Joint Communications Control Center (JCCC), and Service component headquarters, System control (SYSCON), will use JNMS to create, modify and manage standardized and automated communications plan (e.g., Annex K).
- (U) The Transition Switch Module (TSM) will provide a flexible Unit Level Switch that bridges legacy Tri-Tac switches with current commercial technology, providing maneuver elements with improved voice/data switching, data transport and bandwidth management capabilities. This program will maintain USMC joint interoperability as all Services transition to COTS switching technologies.
- (U) The Tactical Data Network (TDN) augments the existing MAGTF communications infrastructure to provide the commander an integrated data network, forming the communications backbone for Tactical Data Systems (TDS) and the Defense Messaging System (DMS). TDN consists of Gateways (AN/TSQ-222) and Data Distribution Systems (AN/TSQ-228), interconnected with one another and their subscribers via a combination of common user long-haul transmission systems, local area networks (LAN), and switched telephone systems. The TDN PIP provides a smaller and more mobile variant DDS for the Battalion, Secure Wireless LAN capability for enhanced mobility, integrates security interdiction products into the Gateway; and provides critical refresh of non-MCHS network components such as routers, switches, converters, and tactical peripherals.
- (U) The Digital Technical Control (DTC) facilitates the installation, operation, resoration, and management of individual circuits and digital links consisting of many multiplexed circuits. It provides the primary interface between subscriber systems/networks within a local area and long-haul multichannel transmission systems to transport voice, message, data, and imagery trafic. It can add, drop and insert digital circuits into multiplexed groups. provide a source of stable timing to connected equipment, condition circuits, and perform analog/digital, 2-wire/4-wire, and signalling conversions. It contains the monitoring, testing, and patching equipment required by a technical controller to troubleshoot and restore faulty circuits and links.
- (U) Target Location Designation and Hand-Off System (TLDHS) Provides fire support observers/controllers (OCs) with the ability to: observe their area of interest, quickly and accurately locate ground targets, and digitally request and coordinate target engagements by field artillery (FA), close air support (CAS), and naval surface fire support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. TLDHS is comprised of and integrates two major subsystems: the Lightweight Laser Designator Rangefinder (LLDR) and the Target Hand-off System (THS).
- (U) The First In Command and Control System (FICCS) is an integrated, processor-controlled communications and management system, housed in a S-788/G Lightweight Multipurpose Shelter (LMS), providing secure and non-secure voice and data communications, switching functions, network routing and management, and global broadcast functions. The S-788/G LMS is mounted on a Heavy-variant High Mobility Multipurpose Wheeled Vehicle (H-HMMWV) and can be connected to a quick-erect general purpose tent.
- U. DMS is an OSD-mandated program to integrate Automatic Digital Network (AUTODIN) and E-Mail into a single, secure, DoD message communications system. DMS will expand writer-to-reader connectivity, support, and message security services. Organizations and individuals will be able to create, edit, send, receive, read, and process organizational and individual messages, secured with end-to-end protection, direct from desktop terminals/personal computers in their workspaces.

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a, RDT&E Project Justification		DATE:	February 2003			
PROGRAM ELEMENT NU	MBER AND NAME	PROJECT NUMBER AND	NAME			
0206313M Marine Corps C	Communications Svs	C2276 Communications Switching & Control Systems				
•	· · · · · · · · · · · · · · · · · · ·					
	FY 2003	FY 2004	FY 2005			
i			 			
0.733	0.544	0.000	0.000			
f INMS hardware suites and ungrade	SPEED for DILCOF LVI	6 compliance	<u>l</u>			
	,		EV 2005			
0.000	0.000	1.249	1.024			
nione madulas for INIMS and in the	and CDEED anhan	to for INMC IOW and EDIDG				
			FV 0005			
0.000	0.000 3.569		0.000			
ng Development Models (EDM).			,			
FY 2002	FY 2003	FY 2004	FY 2005			
0.000	0.000	0.982	1.654			
d Voice over IP (VoIP) capability for	integration into TSM FDM	Is and test for interoperability/oper	rational suitability			
0.100	0.000	3.555	5.000			
ering integration testing						
FY 2002	FY 2003	FY 2004	FY 2005			
0.085	0.000	0.000	0.000			
FY 2002	FY 2003	FY 2004	FY 2005			
0.168	0.000	0.000	0.000			
0 1 0			,			
0.000	0.000	4.150	0.000			
		FICCS platform.	EV 2005			
0.000	0.000	0.000	1.137			
colutions, colaborate with MCTSSA (SIE and conduct Interconce	hility Tecting at UTC				
			3 815			
	PROGRAM ELEMENT NU 0206313M Marine Corps (CORAM: FY 2002 0.739 If JNMS hardware suites and upgrade FY 2002 0.000 Inique modules for JNMS applications FY 2002 0	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys COGRAM: FY 2002 FY 2003 0.739 0.944 If JNMS hardware suites and upgrade SPEED for DII COE LVL FY 2002 FY 2003 0.000 0.000 Inique modules for JNMS applicationa, and SPEED enhancemen FY 2002 FY 2003 0.000 3.569 Ing Development Models (EDM). FY 2002 FY 2003 0.000 FY 2003 0.435 0.000 If Y 2002 FY 2003 0.645 If Y 2002 FY 2003 0.655 0.000 If Y 2002 FY 2003 0.668 0.000 If Y 2002 If Y 2003 0.668 0.000 If Y 2003 0.668 If Y 2002 If Y 2003 0.668 If Y 2002 If Y 2003 0.668 0.669 If Y 2003 0.668 If Y 2003	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys C2276 Communications Stograms	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME 2026313M Marine Corps Communications Sys C276 Communications Switching & Control Systems		

		UNC	LASSIF	FIED						
EXHIBIT R-2a, RD	T&E Project Justit	fication			DATE:		February	2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	EMENT NUMI	BER AND NA	ME	PROJECT NUI					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mari	ine Corps Cor	mmunications	Sys	C2276 Commu	ınications Sv	vitching & C	ontrol Syste	ems	
(U) PROJECT CHANGE SUMMARY:										
	FY2002	FY2003	FY 2004	FY 2005						
(U) FY 2003 President's Budget:	0.969	4.766	0.602	0.603						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions		-0.253	-0.141	-0.180)					
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings	0.502		5.920	3.392	!					
(U) SBIR/STTR Transfer	-0.025									
(U) Minor Affordability Adjustment	-0.019									
(U) FY 2004 President's Budget:	1.427	4.513	6.381	3.815	j					
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Commi	Tatal Can
		F1 2003	F1 2004	F1 2003	F1 2000	F1 2007	F1 2008	F1 2009	To Compl	Total Cos
(U)PMC BLI 463400 Communications Switching and C	•									
JNMS	0.000	0.000	5.845	5.290		1.050	0.650		0.000	14.132
BLACKJACK DIGITAL FAX TDN	0.985 0.399	0.000	0.000 2.354	0.000 1.125		0.000	34679	0.150	0.000	0.985 68.79
FICCS	0.399	2.110 0.000	2.334 9.611	11.323		57.065 1.884	0.768	0.150 0.853	0.000	41.58
DMS	0.000	3.938	0.000	0.000		0.000	0.768	0.855	0.000	3.93
DSID	2.793	0.000	0.000	0.000		0.000	0.000	0.000	0.000	2.79
JECCS	0.000	19.536	0.000	0.000		0.000	0.000	0.000	0.000	19.530
(U)PMC BLI 468800 Transition Switch Module	0.000	0.000	23.072	40.122		52.993	4.800	2.951	0.000	Con
(U)PMC BLI 473300 TLDHS	3.584	34.134	28.444	0.000	0.000	0.000	0.000	0.000	0.000	66.162
(U) Related RDT&E: Not Applicable.										

UNCLASSIFIED							
EXHIBIT R-2a, RD1	&E Project Justification	DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems					

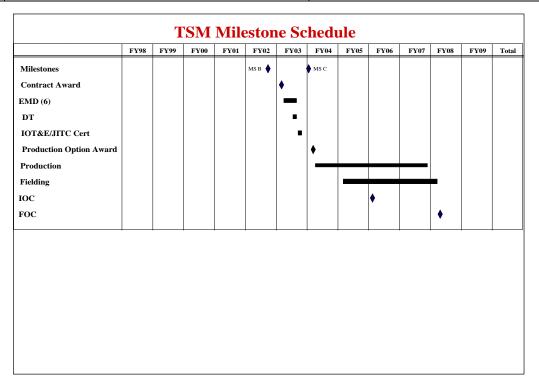
- (U) D. ACQUISITION STRATEGY DMS: DMS is a Joint ACAT1AM program. It is ASD (C3I) mandated. Each year Joint Inter Operability Testing Center (JTIC) runs on Operational Test assessment on DMS software version, maintenance releases. The fund support Marine Corps Operations Test Activity (OTA). Marine Corps participation is vital to ensuring the Marine Corps implementation of DMS is interoperable with all DOD CINCs/Services/Agencies.
- (U) D. ACQUISITION STRATEGY JNMS: The JNMS acquisition strategy awards two concurrent contracts to one offeror. The first contract is a CPFF contract for the development of the JNMS software baseline. The second contract is a follow-on FFP contract for JNMS software suites with a T&M option for production and fielding support. The contracts were awarded using a best value, full and open competition source selection process that stresses the use of COTS. If COTS is not available, then Government-off-the-Shelf (GOTS) products will be the next strategy emphasized. A performance specification is used as the technical basis for the JNMS.
- (U) D. ACQUISITION STRATEGY TSM: The TSM acquisition strategy calls for use of FY03 R&D to develop and demonstrate a system of sufficient maturity for production (Milestone C). There will be a single contract award for LRIP, testing and full-rate production after successful completion of test. FY04 and FY05 R&D will be used to develop potential cellular telephone and Voice over IP (VoIP) technology for insertion into the TSM EDMs. They will then be tested prior to incorporating them into the TSM production systems.
- (U) D. ACQUISITION STRATEGY FICCS: FICCS will use the evolutionary acquisition strategy with the Block I variant consisting of the initial three JECCS systems. These systems are to be fielded during FY-03, with over \$1M of proposed ONR S&T and \$80K ELB ACTD (Wireless) efforts, FICCS Block II will consist of six (6) JECCS production units and nine (9) Operational Shelters, which will include upgrades to emerging hardware/software. Exploring the Block II/III R&D effort, FICCS Block III will achieve the current AAO of fourteen (14) FICCS systems with the production of five (5) JECCS units and five (5) Operational Shelters.

(U) E. Major Performers:

- FY02 (DMS) NAWC FALLBROOK CRANE IN .TEST PROGRAM MANAGEMENT SUPPORT , AUG02
- FY02 (JNMS) Northrop Grumman Information Technology (NGIT), Winterpark, FL. SPEED enhancements for JNMS, AUG02
- FY03 (JNMS) NGIT, Winterpark, FL. SPEED enhancements; MCOTEA, Quantico, VA. Fleet IOT&E support, JAN 03.
- FY04 (JNMS) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, JAN 04
- FY05 (JNMS) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, JAN 05
- FY03/04 (TSM) TBD, Prime Contractor, TSM prototype design/build/test, OCT 02
- FY 04/05 (TSM) TBD, Prime Contractor, Integration and test of VoIP and Wireless technology
- FY04 (FICCS) Darlington, Inc., Wando, SC. Integration and test of Gigabit Ethernet and Wireless Telephone technology, OCT 04
- FY05 (FICCS) Darlington, Inc., Wando, SC. Hardware miniaturization and colaboration/testing with MCTSSA SIE & JITC, OCT 05

								IDATE:								
Exhibit R-3 Cost Analysis								DATE			г.	bruarv	2002			
APPROPRIATION/BUDGET	A CTI\ /IT\/		PROGRAM ELEMENT	_				DDO II					2003			
RDT&E, N /BA 7 Operation	-		0206313M Marine Co		nunicatio	ne Sve		PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems								
				-	Turnicatio	FY 02) 	FY 03 FY 04 FY 05						:1115	I	
Cost Categories (Tailor to WBS, or Sys/Item	Contract Method	Performing Activity &		Total PY s	FY 02		FY 03	Award	EV 04	Award	EV OF	Award	Cost to	Total	Torget \/elije	
Requirements)	& Type			Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Cost to	Cost	Target Value of Contract	
		Location	CECOM, Monmouth, NJ												or Contract	
JNMS Development	CPFF			0.000			0.184		0.199		0.154		Cont.	Cont.		
JNMS SPEED	FFP	NGIT Winte		0.000			0.246	01/03	0.450	01/04	0.460	01/05	Cont.	Cont.		
JNMS MCHS	FFP	MCSC, Qua	antico, VA	0.000												
FICCS	CPFF	TBD		0.000			0.000		3.450		0.637		Cont.	Cont.		
TSM	FFP	TBD		0.000			1.825		0.554		0.694	10/04	Cont.	Cont.		
Subtotal Product Dev				0.000	0.550		2.255		4.653		1.945		Cont.	Cont.		
Remarks:																
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05				
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04		FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
JNMS PO Support	WR	MCSC, Qua	antico, VA/MCTSSA	0.000	0.064	05/02	0.100	01/03	0.100	01/04	0.090	01/05	Cont.	Cont.		
JNMS Support Contractor	FFP	NGIT, Aquia	a, VA	0.000	0.125	01/02	0.230	01/03	0.300	01/04	0.320		Cont.	Cont.		
FICCS	CPFF	Support Co		0.000	0.000		0.000		0.500	10/03	0.300	10/04	Cont.	Cont.		
TSM	FFP	NGIT, Aquia, VA		0.000	0.000		0.794	10/02	0.304	10/03	0.285	10/04	Cont.	Cont.		
DMS	WR	NAWC FALLBROOK		0.000	0.237	01/02	0.000									
Subtotal Support				0.000	0.426		1.124		1.204		0.995		Cont.	Cont.		
Remarks:																
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05				
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
JNMS	WR	MCOTEA/F	MF	0.000	0.000		0.184	01/03	0.200	12/03	0.000		Cont.	Cont.		
FICCS	WR	MCOTEA		0.000	0.000		0.000		0.200	10/03	0.200	10/04	Cont.	Cont.		
TSM	CPFF	TBD		0.000	0.000		0.950	10/02	0.000		0.450		Cont.	Cont.		
TSM	WR	MCOTEA		0.000	0.000		0.000		0.124	10/03	0.225	10/04	Cont.	Cont.		
TDN	WR	MCOTEA		0.000	0.085	01/02										
TLDHS	WR	MCOTEA		0.000	0.168	01/02										
DMS	WR	MCOTEA			0.198	01/02										
Subtotal T&E				0.000	0.451		1.134		0.524		0.875		Cont.	Cont.		
Remarks:				•		•						•				
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05				
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value	
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
Subtotal Management	71:-			0.000			0.000		0.000		0.000		0.000			
Remarks:				•												
Total Cost				0.000	1.427		4.513		6.381		3.815		Cont.	Cont.		

CLASSIFICATION:							
		DATE:					
Exhibit R-4/4a Schedule Profile/Detail		February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems					



Program Funding Summary (APPN, BLI #, NOMEN)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	0.000	3.569	0.982	1.654	1.675	1.143	0.906	0.921	0.000	10.85
(U) PMC BLI# 468800 Transition Switch Module (TSM)	0.000	0.000	23.072	40.122	57.122	52.993	4.800	2.951	Continuing	Continuing

SSIFICATION:			DATE:					
ibit R-4/4a Schedule Profile/Detail			DATE.		F	ebruary 20	03	
bit R-4/4a Schedule Profile/Detail PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT				NUMBER A	ND NAME			
&E, N /BA 7 Operational Sys Dev 0206313M Marine Corps Com					ns Switchir		1	
TSM SCHEDULE DETAIL	FY 2002		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Contract Award		2Q						
Engineering Develoment Model Delivery (Qty 6)		4Q						
Operational Test/Joint Interoperability Certification		4Q						
Milestone C			1Q					
Production Option Award			2Q					
Fielding Begins				2Q				
Initial Operational Capability					1Q			
Fielding Ends/Full Operational Capability							2Q	

CLASSIFICATION	:											
Eyhihit R-4/4a Sch	edule Profile/Detail					DATE:		Feh	ruary 2003	ł.		
APPROPRIATION/		GRAM ELEMI					NUMBER AN	D NAME	-			
RDT&E, N /BA 7 (Operational Sys Dev 0206	313M Marine	Corps Com	munications	Sys	C2276 Com	munication	s Switching	& Control	Systems		
				JNM								
	Task Name	99	00	01	02 Q1 Q2 Q3 Q4	03	04	05	06)7	08
	JROC Approval	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	<u>ui u2 u3 u4</u>	Q1 Q2 Q3 Q ²		24 Q1 Q2 Q3	3 Q4 Q1 Q2	143 4 4 4 1	12 U3
	Milestone I/II	-										
	RFP Release											
	Joint Service Contract Award	-										
	FQT Threshold	-										
	IOT&E						<u>m</u>					
	Milestone III Approval											
	Marine Corps Fielding											
Program Funding S (APPN, BLI #, NON			FY	2002 FY 20	003 FY 200	4 FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N					944 1.249		0.845	0.822	0.649		Continuing	
(U) PMC BLI# 463	3400 CommSwitch& Ctl Sys (J	NMS)	(0.000	000 5.84	5.290	1.297	1.050	0.650	0	0.000	14.132

D 4/4 0	1 1 1 D (1) /D (1)			DATE:		_	.1		
	chedule Profile/Detail DN/BUDGET ACTIVITY PROGRAM ELEMENT			DDO IECT	NUMBER A	ND NAME	ebruary 200)3	
	7 Operational Sys Dev 0206313M Marine Corps Co	mmunications Sy	s		mmunicatio		ng & Contro	ol Systems	
	JNMS SCHEDULE DETAIL	FY 2002		FY 2004	FY 2005	FY 2006		FY 2008	FY 2009
	Software Pre-release .2	4Q							
	Functional (Software) Qualification Test (FQT)		3Q						
	Initial Operational Test & Evaluation (IOT&E)			1Q					
	Milestone III Approval (PEO C3S)			3Q					
	USMC Fielding			4Q					
		+							
				l					

CLASSIFICATION:					DATE:						
Exhibit R-4/4a Schedule Profile/Detail					DATE.		Fel	bruary 2003	.		
	OGRAM ELEMENT 6313M Marine Corp	os Communica	ations Sys		PROJECT N C2276 Com r		D NAME	•			
Fiscal Year EDM Contract Award MS C Contract Award SDR TRR Env/Transport Test Field Evaluation Fielding Decision (3) IOC Technology Refresh/DT Full Rate Production Decision Full Rate Production of Block II Fielding Decision (11) FOC Block III R&D Block III Production (Retrofit)	FY98 FY99 ♣ Jun 98	FY00 FY01	♦ Sep 01 ♦ Max 02 ♦	FY03 Sep 02 □ Sep 02 -1 □ Jan 03 ↔ Apr ↔ Jan 05	– Feb 03 03 May 03	: – Sego 04.	let 03 – Apar 06 ♦ May 06 ♦ Jun.	FY08 06 Nov 04 - Sep 0		Apr 09	
Program Funding Summary (APPN, BLI #, NOMEN) (U) RDT&E,N (U) PMC BLI# 463400 CommSwitch& Ctl Sys -	FICCS	FY 2002 0.000 0.000	FY 2003 0.000 0.000	FY 2004 4.150 9.611	FY 2005 1.137 11.323	FY 2006 1.027 17.142	FY 2007 1.066 1.884	FY 2008 1.586 0.768	FY 2009 1.857 0.853	To Compl 0.000 0.000	Total Cost 10.823 41.581

R-4/4a Schedule Profile/Detail			DATE:		_	ebruary 20	no	
PRIATION/BUDGET ACTIVITY PROGRAM ELEMENT Note:	ommunications Sy	s		NUMBER A	ND NAME			
FICCS SCHEDULE DETAIL	FY 2002	FY 2003		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
System Design Review	2Q							
Test Readiness Review	4Q							
Environmental/Transportation Testing		1Q						
Field Evaluation		2Q						
Fielding Decision		3Q						
Initial Operational Capability		3Q						
Technology Refresh (Block II) / Develoment and Test			1Q-4Q					
Full Rate Production Decision - Block II			1Q					
Full Rate Production of Block II			1Q		3Q			
Fielding Decision - Block II					3Q			
FOC					3Q			
Block III R&D				1Q 05		4Q 07		
Block III Production (Retrofit)						1Q		3Q

EXHIBIT R-2a		DATE:										
					February 2003							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUN	BER AND NA	ME		PROJECT NI	JMBER AND I	NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M M	arine Corps (Communicatio	ons Systems		C2277 Syste	ms Engineeri	ng & Integrat	ion			
									Cost to	Total		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program		
									_	_		
Project Cost	11.772	10.736	8.907	7.991	9.597	8.768	9.043	9.204	Cont	Cont		
										ŀ		
RDT&E Articles Qty												

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) This project provides funds for engineering, test, and evaluation activity, which ensures that the systems being developed within the Program Element (PE) employ consistent standards for interoperability and, to the maximum extent feasible, use hardware, and software which is uniform across programs.
- 1. The Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, Coordination. (MAGTF C4I SEI&C) subproject is a non-acquisition effort which provides centralized planning and execution of MAGTF C4I Systems; it develops, certifies and manages the configuration of the MAGTF C4I Systems/Technical Architecture and its implementation; it is also used to develop and test common hardware and software for use in MAGFT C4I Systems; MAGTF C4I SE&I also funds USMC participation in joint planning, technical standards development and joint exercise participation
- 2. Global Broadcast Service (GBS) Terminal The overall GBS is a satellite system composed of a space segment, a transmit suite and a Receive Suite. It provides near worldwide high data rate dissemination of large information products such as classified and unclassified intelligence and video, theater message traffic, joint and service-unique news, weather and MWR programming to deployed or garrison forces via small user platforms.
- 3. MAGTF C4I SEI&C Joint Distributed Engineering Plant (JDEP) is a DoD mandated program to evaluate the interoperability of the Family of Systems (FoS) C4ISR configurations that support joint forces, evaluate the interoperability of new acquisition systems, and provide an environment for engineering analysis to correct systems deficiencies and develop new capabilities.
- 4. Joint Warrior Interoperability Demos (JWID) is a JCS-mandated program to demonstrate new C4I interoperability concepts for the warrior. JWID offers the opportunity for demonstrations of evolving technologies in interoperability, information dissemination, fusing and digital communications.
- 5. The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)-mandated program for joint development, implementation, and testing of data links under the direction of the Joint Interoperability Engineering Organization (JIEO).
- 6. Common Computer Resources (CCR) Marine Common Hardware Suite (MCHS) mission Central and standardized management and acquisition of all Tactical common computer hardware and infrastructure adopting the Joint Defense Information Infrastructure (DII) Common Operating Environment (COE) with consolidated Integrated Logistics Support. Ensure the environment remains in synchronization with computer hardware technology hardware improvements. The mission supports the Commandant's Planning Guidance and input to the Marine Corps Master Plan. This program has moved to Project C2510 within this Program Element (PE) in FY04 and beyond.
- 7. Ballon Upgrade The Marine Corps Stationary Lighter Than Air Platform (MCSLAP) program provides for the Marine Corps' only expeditionary capability to rapidly extend voice and data communications beyond line of sight. Small and medium tactical aerostat exist today in commercial off-the-shelf configurations that require minimal adaptation to meet basic USMC operational requirements. A lightweight, durable, stationary liftable platform is designed for extending Marine Air Ground Task Force (MAGTF) Command, Control, Communications, Computers, and Intelligence (C4I) communications range capabilities.

(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.453	1.067	1.207	1.197
RDT&E Articles Qty				

JWID: Participation in JWID, a JCS mandated program, to demonstrate new C4I interoperability concepts. It also supports management and planning of future JWID exercises.

EXHIBIT R-2a	a, RDT&E Project Justification		DATE:	
				February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	BER AND NAME	PROJECT N	JMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Co	ommunications Systems	C2277 Syste	ms Engineering & Integratio
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	1.546	1.695	1.740	1.784
DT&E Articles Qty				
JINTACCS: Participation in JINTACCS, a developing joint standards. Interoperability	1 0	2 1	, , ,	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	5.000	4.297	4.312	3.392
DT&E Articles Qty MAGTF SEI&C: Engineering and technical				
technical recommendations to correct deficience COST (\$ in Millions)	encies. Engineering support to D-30 FY 2002	Amphib Ready Group (ARG) FY 2003	preparation process.	FY 2005
Accomplishment/Effort Subtotal Cost	0.742	0.830	1.648	1.618
DT&E Articles Qty				
the interoperability of new acquisition system COST (\$ in Millions)	ms, and provide an environment for e	engineering analysis to correct	systems deficiencies and deve	lop new capabilities. FY 2005
.ccomplishment/Effort Subtotal Cost	1.082	1.400	=	
T&E Articles Qty				
Baloon Upgrade: Active testing and utiliza	ntion of Aerostat Ballon to test conce	ots for USMC connectivity to	USN Battle Groups.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.581			
DT&E Articles Qty				
GBS: Support and Management for Confidence	ence/User Evaluation.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
complishment/Effort Subtotal Cost	0.241			
DT&E Articles Qty				
GBS: Operational Testing and Integration T	Testing.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	1.127	1.447		
DT&E Articles Qty				
CCR MCHS: Research, evaluation, test and system specifications and baselines; research commercial product selection and application	h and analyze computer technologies			
(U) Total \$ 0.000	11.772	10.736	8.907	7.991

EXHIBIT R-2a, R	DT&E Project Jus	stification			DATE:					
							February	2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUMBI	ER AND NAMI	Ē		PROJECT NUM	MBER AND NA	AME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mari	ne Corps Cor	nmunications	Systems		C2277 System	s Engineering	g & Integration	1	
(U) PROJECT CHANGE SUMMARY:										
	FY2002	FY2003	FY2004	FY2005						
(U) FY 2003 President's Budget:	13.244	9.912	11.810	11.011						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reduction	าร	-0.576	0.094	-0.177						
(U) Congressional Rescissions										
(U) Congressional Increases		1.400								
(U) Reprogrammings	-1.031		-2.997	-2.843						
(U) SBIR/STTR Transfer	-0.253									
(U) Minor Affordability Adjustment	-0.188									
(U) FY 2004 President's Budget:	11.772	10.736	8.907	7.991						
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMAR <u>Line Item No. & Name</u> PMC BLI 463000 CCR PMC BLI 463300 RADIO SYSTEMS	RY: <u>FY 2002</u> 27.410 37.011	FY 2003 38.168 27.939	FY 2004 61.514 10.633	FY 2005 71.743 24.462	FY 2006 86.339 9.393	9 105.161	FY 2008 101.188 26.815	FY 2009 To 105.989 10.316	Compl Cont Cont	Total Cost Cont Cont

(U) Related RDT&E:

- (U) PE 0604817A
- (U) PE 0206623M, Marine Corps Ground Combat/Supporting Arms Systems
- (U) D. ACQUISITION STRATEGY JWID, JINTACCS MAGTF SE&IC, GBS, AND CCR: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts
- CCR T&E NSWC/CD will procure Computer Hardware as noted under selected MCHS and non-MCHS systems for battery and environmental testing. NSWC/CD shall provide written test results showing the facts determined in the battery and environmental testing.
- (U) E. Major Performers: FY02-FY05 Northrup Grumman, Stafford VA Level of effort contract for program management, engineering, analytical, acquisition and logistics support for C4I programs in the areas of systems architectures, configuration management, interoprability and integration.

					DATE:									
Exhibit R-3 Cost Analysis										February 2	003			
APPROPRIATION/BUDGET ACT	TVITY	PROGRAM EL	EMENT		PROJEC	T NUMBER	R AND NA	ME						
		0206313M Ma	rine Corps											
RDT&E, N /BA 7 Operational S	ys Dev	Communication	n Systems		C2277 S	ystems En	gineering	& Integrati	ion					
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
JWID	MPR	JPO Ft Monmouth NJ	0.747	0.630	10/01	0.640	12/02	0.640	12/03	0.680	12/04	Cont.	Cont.	
JWID	WR	NSWC Dahlgren, VA	0.000	0.300	05/02							0.000	0.300	0.30
JWID	WR	MCSC Quantico, VA	0.000	0.073	10/01	0.021	10/02	0.022	10/03	0.029	10/04	Cont.	Cont	
GBS	WR	MCSC Quantico, VA	0.066	0.046		0.021	10/02	0.022	10/00	0.023	10/04	0.000	0.112	0.14
			0.000			4 400	0.4/00	1	1			0.000	0.112	0.14
BALLOON UPGRADE	TBD	TBD		1.082	11/01	1.400	04/03							
Outstate Describert Desc			0.040	0.404		0.004		0.000		0.700		01	04	
Subtotal Product Dev			0.813	2.131		2.061		0.662	<u> </u>	0.709		Cont.	Cont.	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 02		FY 03	1	FY 04		FY 05	1	I	
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
JWID	C/FFP	NGIT, Stafford VA	0.726			0.406		0.545		0.488		Complete Cont.	Cont.	or Contract
MAGTF SEI&C	MIPR	CECOM Ft Monmouth NJ	0.580			0.400	10/02	0.040	10/00	0.400	10/04	Cont.	Cont	
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	0.000	0.610		0.857	10/02	1.251	10/03	1.033	10/04	00	00111	
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.408			0.110		0.144		0.123		Cont.	Cont.	
MAGTF SEI&C	C/FFP	OSEC Stafford VA	0.000	0.252	10/01	0.370		0.485		0.416		Cont.	Cont.	
MAGTF SEI&C	WR	NSWC Crane IN	0.108	0.120	11/01	0.000						0.000	0.228	0.32
MAGTF SEI&C	RCP	MCSC, Quantico, VA	0.000	0.858	09/02							0.000	0.858	0.85
MAGTF SEI&C (JDEP)	WR	NSWC Dahlgren, VA	0.000	0.068	01/02	0.083	01/03	0.120	01/04	0.132	01/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	T&M	SENSIS Syracuse NY	0.000	0.547	05/02	0.494	05/03	1.164	05/04	1.089	05/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	MPR	DISA	0.000	0.007	02/02	0.010	02/03	0.010	02/04	0.012	02/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	WR	MCTSSA, Cp Pndltn, CA	0.000	0.120	04/02	0.243	04/03	0.354	04/04	0.385	04/05	Cont.	Cont.	
MAGTF SEI&C (INIT)	C/FFP	NGIT, Stafford VA	0.000	1.168	12/01	0.000						0.000	1.168	1.49
MAGTF SEI&C (INIT)	C/FFP	Raytheon, Fullerton, CA	0.000	0.350	12/01	0.000						0.000	0.350	0.65
GBS	C/FFP	NGIT, Stafford VA	0.495	0.354	02/02	0.000						0.000	0.849	0.84
GBS	C/FFP	Booz Allen	0.000	0.050	03/02	0.000						0.000	0.050	
GBS	WR	MCSC, Quantico, VA	0.000	0.116		0.000						0.000	0.116	
GBS	WR	I/II/III MEF	0.040	0.016	02/02	0.000						0.000	0.056	0.05
CCR	Various	Various	0.000	0.395	11/01	0.200	12/02					Cont.	Cont.	
CCR	MPR	GSA	0.000	0.802	03/02	0.711	03/02					Cont.	Cont.	
CCR	WR	NSWC Crane IN	0.000			0.200						Cont.	Cont.	
CCR	RCP	MCSC, Quantico, VA	0.000		03/02	0.037	03/02					Cont.	Cont.	
ONR TAXES			0.128									1		
	1	_	+		-	1	<u> </u>	1	1		<u> </u>	1		1
Subtotal Support	-		2.485	6.705	-	3.721	<u> </u>	4.073	1	3.678	<u> </u>	+		
Remarks:			2.400	0.703	1	3.121		4.073	<u>'</u>	3.070		1		

						DATE:										
xhibit R-3 Cost Analysis											February 2	003				
PPROPRIATION/BUDGET ACT	IVITY	PF	ROGRAM ELE	MENT		PROJEC	T NUMBER	AND NA	ME							
		02	206313M Mari	ne Corps												
DT&E, N /BA 7 Operational St	s Dev		ommunication			C2277 S	vstems En	aineering	& Integration	on						
ost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05				
Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	ŀ	Target Value
equirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	ļ	of Contract
IAGTF SEI&C	C/FFP	NGIT, Stafford VA	A	9.327									Cont.		Cont.	Coi
IAGTF SEI&C	TBD	TBD					2.780	10/02	2.196	10/03	1.618	10/04	Cont.		Cont.	
NTACCS	C/FFP	NGIT, Stafford VA	A	4.062	1.446	10/01							Cont.		Cont.	
NTACCS	TBD	TBD					1.495	10/02	1.535	10/03	1.576	10/04	Cont.		Cont.	
NTACCS	WR	MCTSSA, Cp Pnd	ltn, CA	0.264	0.100	10/01	0.200	10/02	0.205	10/03	0.208	10/04	Cont.		Cont.	
BS	WR	MCTSSA, Cp Pn	dltn, CA	0.200	0.241	02/02	0.000						0.000)	0.441	0.44
CR	RCP	MCSC, Quantico,	VA	1.086	0.979	02/02	0.299	02/03					Cont.		Cont.	
Subtotal T&E				14.939	2.766	:	4.774		3.936		3.402		Cont.		Cont.	
emarks:				14.555	2.700	'	4.774		3.930		3.402		Cont.		Cont.	
ost Categories Failor to WBS, or Sys/Item equirements)	Contract Method & Type	Performing Activity & Location			FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost		Target Value of Contract
IAGTF SEI&C	C/FFP	NGIT, Stafford V	Λ	0.310			0031	Date	0031	Date	0031	Date	Cont.	0031	Cont.	or Contract
IAGTF SEI&C	TBD	TBD	Α	0.310	0.170	11/01	0.180	10/02	0.236	10/03	0.202	10/04	Cont.	1	Cont.	
IAGTI SLIGO	100	1100					0.100	10/02	0.230	10/03	0.202	10/04	Cont.	1	COIII.	
Subtotal Management				0.310	0.170		0.180		0.236		0.202		Cont.		Cont.	
emarks:						1			1			•		1		
otal Cost					11.772	!	10.736		8.907		7.991		Cont.		Cont.	
otal Cost		<u> </u>			11.772	!	10.736		8.907		7.991		Cont.			Cont.

			UNCI	ASSIFI	ED							
EXHIBIT R-2a, RD	DT&E Project Jus	tification					DATE:					
								Februa	ry 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUI	MBER AND I	NAME		PROJECT NU	JMBER AND N	IAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M M	arine Corps	Communica	tions Sys		C2278 Air De	Defense Weapons Systems					
									Cost to	Total		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program		
Project Cost	11.156	28.274	23.428	9.596	6.469	11.127	10.577	5.827	Cont	Cont		
RDT&E Articles Qty												

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) This project encompasses two sub-element programs which are part of the Integrated Air Defense System for the Marine Corps.
 - 1. Combat ID (CID) will provide rapid and accurate determination of friends, foes, or neutral identities of all potential targets within a combatant's area of responsibility in time to take decisive action. It will enable fighting forces: to manage and control battlespace; optimally employ weapons and forces to increase the economy of force; lower combat attrition, and increase enemy losses while reducing fratricide. CID must be viewed as a capability which will be satisfied by fielding a Family of Systems (FoS). Beginning in FY-04 the USMC will focus on providing a Mounted Cooperative Target Identification System (MCTIS) for direct fire and combat support vehicles. This system will specifically provide the capability for Mounted Weapon Systems to accurately identify friendly platforms on the battlefield which will improve combat effectiveness and reduce fratricide. This program will transition to MCTIS in FY04.
 - 2. The Complementary Low Altitude Weapons System (CLAWS) is a mobile ground based air defense missile system designed to defeat threat cruise missiles unmanned aerial vehicles, and aircraft. CLAWS takes advantage of government furnished equipment (GFE) and non-developmental items (NDI) and technology by integrating current inventory DoD missiles with existing High Mobility Multi-purpose Wheeled Vehicles (HMMWV). CLAWS shall provide a rapidly deployable, mobile, high firepower, all-weather, standoff air defense system to defend Marine Expeditionary Forces and Naval Forces from attack by cruise missiles, aircraft and UAVs. It shall complement existing Short Range Air Defense (SHORAD) capabilities and shall interface with current and proposed Marine Air Command and Control System sensors and data paths.
 - 3. The Continuous Wave Acquisition Radar (CWAR) will investigate, integrate, and test safety and diminishing source issues related to CWAR specifically with the intention of increasing the fleet's system maintainability and reliability. This effort includes all necessary prototyping, initial tooling and associated test equipment to prepare for production efforts. This line will also support all program requirements studies related to investigating future CWAR requirements. This program will transition to Short/Medium Range Air Defense Radar. Funding for the Short/Medium Range Air Defense Radar has moved to Project C3099 within this PE in FY04 and beyond.
 - 4. The Composite Tracking Network, formerly know as Cooperative Engagement Capability (CEC), enables all CTN-equipped, Anti-Air Warfare (AAW) weapons systems in a battle force to operate as a single, distributed AAW weapon system. This is accomplished providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapons management status. The sensor networking capability of CTN essentially allows forces to have a direct connection to the various sensors supported by forces throughout a battlefield enabling the development of a common understanding of the air situation. CTN consists of common processing units that interface with local and remote sensor data in order to develop a common track database and data communications pieces that enable the connectivity and networking of the sensors and processors. Funding for this program has moved to Project C2273 within this PE in FY04 and beyond.
 - 5. The Low Altitude Air Defense (LAAD) Sustainment initiative is an umbrella program that consists of Man Portable Air Defense System (MANPADS), Ground Support Equipment, Ground Based Aerial Targets, trainers and simulators, Stinger Missiles/modifications, and weapons cueing and situational awareness systems that provide air defense of vital areas in general or direct support of the Marine Air Ground Task Force (MAGTF).
 - 6. The Multi-Role Radar System (MRRS) will provide lightweight, expeditionary, three-dimensional radar capable of detecting Cruise Missiles (CMs), fixed and rotary winged aircraft, Unmanned Aerial Vehicles (UAVs) and an enhanced Combat Identification (CID) capability. The system will augment the AN/TPS-59(V)3 sensor coverage and will be integrated into the Navy's Cooperative Engagement Capability (CEC) and the Marine Corps Composite Tracking Network (CTN). Additionally, the system shall provide Air Traffic Control (ATC) with a real time display of all air activity within the assigned area of responsibility and will support the situational awareness and cuing for Stinger, Avenger, and CLAWS. Funding for this program has moved to Project C3099 within this PE in FY04 and beyond.
 - 7. Pedestal Mounted Stinger (PMS) or "Avenger" is a turreted, lightweight, highly mobile gun/missile hybrid mounted on a heavy HMMWV. The system delivers eight ready to fire Stinger missiles and 285 rounds of .50 caliber ammunition in a single upload. An upgraded Land Navigation System assists the slew-to-cue capability and the Forward Looking Infra Red Device provides a day/night and reduced visibility capability.
 - 8. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. As part of this effort, AN/TPS-63 modifications and system improvements will be researched and analyzed which complement existing components to preclude an expensive USMC investment in solid-state radar technology. Funding for this project has moved to Project C3099 in FY04 and beyond.

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EXHIBIT R-2a,	RDT&E Project Justification			DATE:					
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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	JMBER AND NAME	PROJECT NU	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	Communications Sys	C2278 Air De	efense Weapons Systems	S				
9. Mounted Cooperative Target ID System	n (MCTIS) - will be a cooperative ba	attlefield target identification de	evice that employs encrypted,	Ka band, millimeter wave, q	uestion and answer technology.				
It will consist of interrogator and transpond and M1A1s; and transponder-only system unknown, at ranges to 6 km, before engagi comparable systems prior to being engaged increase dramatically. The system will be (U) B. ACCOMPLISHMENTS/ PLANNED P	for combat support and combat serving them. They and all other designated. As a result, incidents of fratricide interoperable with Joint, Allied, and	ice support vehicles. When fie ated vehicles will also possess t and collateral damage will dec	elded, mounted weapon systen the capability to rapidly identi cline, while the range at which	ns will have the capability to ify themselves as friendly to	identify targets as friendly or weapon systems equipped with				
. ,					\neg				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\dashv				
Accomplishment/Effort Subtotal Cost	0.121	0.269	0.000	0.000	4				
RDT&E Articles Qty									
CWAR: Developmental test and evaluation	1.								
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.124	0.000	0.000	0.000					
RDT&E Articles Qty									
CWAR: Development of Engineer Design	Model.	•		1					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg				
Accomplishment/Effort Subtotal Cost	0.025	0.000	0.000	0.000					
RDT&E Articles Qty	0.025	0.000	0.000	0.000					
CWAR: Program management support.									
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg				
Accomplishment/Effort Subtotal Cost	0.215	0.614	0.000	0.000					
RDT&E Articles Qty	3.2.3	3.0	0.000	0.000					
CID: Program management support.	-								
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg				
Accomplishment/Effort Subtotal Cost	0.100	0.435	0.000	0.000					
RDT&E Articles Qty	555				7				
CID: Requirements development.	•	<u>.</u>			_				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.285	0.413	0.000	0.000	7				
RDT&E Articles Qty					7				
CID: Engineering analysis of CID systems	in coordination with the Coalition C	TID ACTD program.			_				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.139	0.137	0.000	0.000	╡				
RDT&E Articles Qty	0.103	0.107	0.000	3.000	=				
SHORT/MEDIUM RANGE AIR DEFEN	SE RADAR: Developmental test	and evaluation/risk reduction		ı	_				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005					
Accomplishment/Effort Subtotal Cost	0.100	0.150	0.000	0.000	7				
RDT&E Articles Qty	0.100	0.130	0.000	0.000	\dashv				
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EXHIBIT R-2a, RI	DT&E Project Justification			DATE:
				February 20
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	JMBER AND NAME	PROJEC [*]	T NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	Communications Sys	C2278 Ai	r Defense Weapons Systems
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.110	0.110	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE beyond.	E RADAR: Program managemen	nt support. Funding for this progr	ram has moved to C309	9 within this PE for FY04 and
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.993	1.837	0.000	0.000
RDT&E Articles Qty				
CTN: Software development: IDD development	ent for CAC2S and CLAWS inter	face to CTN.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.622	8.417	0.000	0.000
RDT&E Articles Qty				
CTN: Development of Engineer Design Mode	el.	<u>'</u>		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
.ccomplishment/Effort Subtotal Cost	0.648	0.919	0.000	0.000
DT&E Articles Qtv				
CTN: Testing and Evaluation: Developmenta	l testing support. Certification of	CAC2S and CLAWS interfaces	to CTN.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.240	0.527	0.000	0.000
RDT&E Articles Qty				
CTN: Program management support. Funding	g for this program has been move	d to Project C2273 within this PI	E for FY 04 and beyond	<u>. </u>
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	4.591	2.000	6.776	0.000
RDT&E Articles Qty				
CLAWS: Development, design, test and integ	ration issues related to the four P	roduction Representative Vehicle	es. Perform Key Perfor	mance Parameter (KPP).
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.202	1.445	2.525	1.275
RDT&E Articles Qty	-			-
CLAWS: Operational System Support.	•	· ·		·
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	4.945	0.000	0.000
RDT&E Articles Qty				
CLAWS: Developmental Testing (DT).	•	l L		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	7.065	1.945
RDT&E Articles Qty	3.000			
CLAWS: Operational Testing (OT).	L .			
ozazaor operational results (O1).	FY 2002	FY 2003	FY 2004	FY 2005
COST (\$ in Millions)				
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	1.641	2.000	2.700	1.912

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EXHIBIT R-2a, I	RDT&E Project Justification			DATE: February 200
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	IMBER AND NAME	PRO JEC	T NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps			ir Defense Weapons Systems
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	2.367	0.000	0.000
RDT&E Articles Qty				
MRRS: Refinement of the ORD, Campaign	Level Effectiveness Analysis, Anal	ysis of Alternatives and Life Cycl	le Cost Estimate.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.383	0.000	0.000
RDT&E Articles Qty				
MRRS: Affordable Ground Base Radar	<u> </u>			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.150	0.000	0.000
RDT&E Articles Qty				
MRRS: Program management support. Fun	ding for this program has been move	ed to C3099 within the same PE f	for FY04 and beyond.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.156	0.000	0.000
RDT&E Articles Qty				
LAAD SUSTAINMENT: Study to examine with commercial alternatives.	e the feasibility for replacement of the	he current Remote Terminal Unit	Expeditionary Air De	fense System (EADS) software
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.250	0.000
DT&E Articles Qty				
LAAD SUSTAINMENT: Certification of t	the Reprogrammable Microprocesso	r Flare.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.587	0.000
DT&E Articles Qty				31333
LAAD SUSTAINMENT: Replacement of	the currently fielded Remote Termin	nal Unit (RTU) with a commercia	l alternative	
	,			
	FY 2002			FY 2005
COST (\$ in Millions)	FY 2002 0.000	FY 2003	FY 2004	FY 2005 0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.000			FY 2005 0.000
COST (\$ in Millions) accomplishment/Effort Subtotal Cost BT&E Articles Qty	0.000	FY 2003 0.000	FY 2004 1.091	0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of	0.000 the Expeditionary Air Defense Syste	FY 2003 0.000 em software for use on commercia	FY 2004 1.091 al computer hardware	0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of COST (\$ in Millions)	0.000 the Expeditionary Air Defense Syste FY 2002	FY 2003 0.000 em software for use on commercial FY 2003	FY 2004 1.091 al computer hardware FY 2004	0.000 FY 2005
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.000 the Expeditionary Air Defense Syste	FY 2003 0.000 em software for use on commercia	FY 2004 1.091 al computer hardware	0.000
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.000 the Expeditionary Air Defense Syste FY 2002 0.000	FY 2003 0.000 em software for use on commercia FY 2003 0.000	FY 2004 1.091 al computer hardware FY 2004 0.000	0.000 FY 2005 1.101
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of a COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Address obsoles	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St	FY 2003 0.000 em software for use on commercia FY 2003 0.000 upport Equipment as indicated by	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction	0.000 FY 2005 1.101
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of a COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Address obsoles COST (\$ in Millions)	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St FY 2002	FY 2003 0.000 em software for use on commercia FY 2003 0.000 upport Equipment as indicated by FY 2003	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction FY 2004	0.000 FY 2005 1.101 Study.
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of the COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Address obsoles COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St	FY 2003 0.000 em software for use on commercia FY 2003 0.000 upport Equipment as indicated by	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction	0.000 FY 2005 1.101
COST (\$ in Millions) accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost accomplishment/Effort Subtotal Cost	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St FY 2002 0.000	FY 2003 0.000 em software for use on commercia FY 2003 0.000 apport Equipment as indicated by FY 2003 0.000	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction FY 2004	0.000 FY 2005 1.101 Study.
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of a COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Address obsoles COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St FY 2002 0.000	FY 2003 0.000 em software for use on commercia FY 2003 0.000 apport Equipment as indicated by FY 2003 0.000	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction FY 2004	0.000 FY 2005 1.101 Study.
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Modification of a COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Address obsoles COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty LAAD SUSTAINMENT: Initiate integration	0.000 the Expeditionary Air Defense Syste FY 2002 0.000 cence issues with Stinger Ground St FY 2002 0.000 on of various MANPAD trainers into	FY 2003 0.000 em software for use on commercia FY 2003 0.000 apport Equipment as indicated by FY 2003 0.000 a single easily deployable unit.	FY 2004 1.091 al computer hardware FY 2004 0.000 Readiness Prediction FY 2004 0.000	0.000 FY 2005 1.101 Study. FY 2005 0.600

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EXHIBIT R-2a, RD	T&E Project Justification			DATE:
,	•			February 200
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	UMBER AND NAME	PROJECT I	NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	Communications Sys	C2278 Air I	Defense Weapons Systems
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.062	1.024
RDT&E Articles Qty				
MCTIS: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500	0.500
RDT&E Articles Qty				
MCTIS: Test and evaluation as part of the coa	lition CID ACTD program.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.225	0.300
RDT&E Articles Qty				
MCTIS: Engineer Design Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.150	0.150
RDT&E Articles Qty				
MCTIS: Risk reduction.		<u> </u>		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250
RDT&E Articles Qty				
MCTIS: Support software development.		<u> </u>		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.467	0.000
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Test a	nd evaluation/risk reduction of F	LIR for Avenger.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.030	0.030
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Engine	eering support for follow-on initi	atives.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.169
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Initiate and integration of Laser Range Finder and Slip	•	ion/risk reduction of Laser Rang	e Finder and Slip Ring for	Avenger. Initiate engineering
	11.156	28.274	23.428	9.596

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EXHIBIT R-2a, RDT	&E Project Justif	fication				DATE:
	-					February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	EMENT NUM	BER AND N	AME	PROJECT N	UMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mar	ine Corps C	ommunication	ons Sys	C2278 Air D	efense Weapons Systems
U) PROJECT CHANGE SUMMARY:						
	FY2002	FY2003	FY2004	FY2005		
(U) FY 2003 President's Budget:	11.135	29.831	36.146	16.968		
(U) Adjustments from the President's Budget:						
(U) Congressional/OSD Program Reductions	-0.030	-1.557	0.608	0.428		
(U) Congressional Rescissions						
(U) Congressional Increases						
(U) Reprogrammings	0.301		-13.323	-7.801		
(U) PDB 290						
(U) SBIR/STTR Transfer	-0.250					
(U) Minor Affordability Adjustment			-0.003	0.001		
U) FY 2004 President's Budget:	11.156	28.274	23.428	9.596		
CHANGE SUMMARY EXPLANATION:						
(U) Funding: Changes in FY04 and FY05	are due to realig	nment of pro	grams within	the Marine Corps		
(U) Schedule: Not Applicable						
(U) Technical: Not Applicable.						

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EXHIBIT R-2a, RDT	&E Project Justi	fication					DATE:			
								Februar	y 2003	
APPROPRIATION/BUDGET ACTIVITY	TY PROGRAM ELEMENT NUMBER AND NAME						MBER AND NA	ME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mai	rine Corps C	ommunicati	ons Sys	С	2278 Air De	fense Weapons	s Systems		
(U) C. OTHER PROGRAM FUNDING SUMMAR'	Y :									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cos
(U) PMC LINE BLI 300600 LAAD SUS	0.000	0.181	1.996	10.449	12.221	14.779	6.135	13.620	Continuing	Continuing
(U) PMC LINE BLI 462000 CWAR (EADS)	0.414	1.166	0.000	0.000	0.000	0.000	0.000	0.000	0	1.5
(U) PMC LINE BLI 464000 CTN	0.000	0.000	0.000	8.270	22.537	34.901	43.970	68.590	Continuing	Continuin
(U) PMC LINE BLI 464000 MCTIS (CID)	0.000	0.000	0.000	0.000	0.000	0.000	0.500	15.300	Continuing	Continuin
(U) PMC LINE BLI 489000 CLAWS	0.000	0.000	0.000	17.993	26.727	28.188	19.728	3.609	Continuing	Continuin
(U) PMC LINE BLI 305000 CLAWS MISSILES	0.000	0.000	0.000	0.000	22.667	19.280	49.186	24.352	Continuing	Continuin
(U) PMC LINE BLI 464000 SH/MED RANGE AIR	0.000	0.977	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuin
(U) PMC LINE BLI 464200 SH/MED RANGE AIR	0.000	0.000	1.581	1.425	0.523	0.432	0.439	0.444	Continuing	Continuin
(U) PMC LINE BLI 464200 MRRS	0.000	0.000	0.000	0.000	2.067	33.156	45.635	46.789	Continuing	Continuin
(U) PMC LINE BLI 301300 PMS	0.000	1.532	0.817	12.033	6.486	9.534	3.461	8.650	Continuing	Continuing

(U) Related RDT&E:
PE 0603216C (Ballistic Missile Defense Organization, Theater Missile Defense)

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EXHIBIT R-2a, F	RDT&E Project Justification		DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT N	UMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2278 Air De	efense Weapons Systems
(II) = 1.00 II 1.00			·

- (U) D. ACQUISITION STRATEGY:
- (U) CID: This effort will continue the management of the CID program as it transitions to MCTIS (Mounted Cooperative Target Identification System) in FY04. The program will leverage heavily from the Coalition CID ACTD program and will allow for engineering analysis of competing systems as the possible MCTIS solution.
- (U) CLAWS: Competitively awarded fixed price contract for design and development. Additionally, there are firm fixed price production options through FY07.
- (U) CWAR: This effort requires R&D funds to develop, procure, install and maintain modifications to keep the Marine Air Command and Control System radar's electronics, hardware, and software viable and safe; provide upkeep of the system. Efforts are underway with APM AD weapons to award an Engineering Services and procurement contract with Raytheon Corporation. The main focus for the contract will be for the procurement of the AN/MPQ-62 Continuous Wave Acquisition Radar (CWAR), Built in Test Equipment (BITE) Diagnostics upgrade which replaces five major sub-assemblies resulting in a substantial reduction in obsolete components, an increase in system reliability and maintainability, as well as addressing any significant safety issues.
- (U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's Program procurement and testing, making necessary modifications to support the Marine Corps requirement. The USMC CTN project will be utilizing existing and future USN CEC contracts.
- (U) LAAD SUSTAINMENT: The LAAD Sustainment acquisition strategy is to fix, sustain, or replace LAAD systems experiencing readiness degredation due to obsolescence. Examples include the replacement of RemoteTerminal Units, shelf life extensions to USMC Stinger Missiles, upgrading trainers to tactical configuration, upgrade present target configurations, and the replacement of Stinger Night sights. LAAD Sustainment will leverage Army interests in every available endeavor. Teaming with the Army will afford the USMC the best quantity of buy opportunities.
- (U) MRRS: The MRRS will build off of the ONR Affordable Ground Based Radar Science and Technology program that will demonstrate advanced mobility combined with medium range and high resolution.
- (U) PEDESTAL MOUNTED STINGER: This effort requires R&D funds to conduct interface testing of new equipment with USMC unique configuration to ensure requirements are maintained to keep the PMS viable, safe, and provide sustainment of the fielded weapon system. The USMC PMS project will utilize existing and future In-Service Engineering Activities.
- (U) SHORT/MEDIUM RANGE AIR DEFENSE RADAR: This effort requires R&D funds to develop, procure, install, and maintain modifications to keep the Short/Medium Range Air Defense radar system's electronics and hardware viable, safe, and provide sustainment of the fielded system. Efforts are underway to award a sole source Engineering Services & procurement contract with the AN/TPS-63's Original Equipment Manufacturer, Northrop Grumman. The main focus for the contract will be for the development and procurement of replacement sub-assemblies currently identified as containing obsolete components, as well as those assemblies experiencing reliability, maintainability and safety related issues.

 (U) MCTIS: Economy of scales dictate a strategy that highly leverages Joint/coalition evolutionary development efforts. The FY03 through FY05 Coalition Combat ID Advanced Concept Technology Demonstration (CCID ACTD) process will evaluate several millimeter wave (mmW) Target Identification systems with the objective of identifying the best system to satisfy the Marine Corps requirement. FY-04/05 efforts will focus on unique system integration efforts required on Marine Corps vehicles not already accomplished through similar Joint efforts. It is anticipated system procurement acquisition will be accomplished on a Joint/coalition basis to take advantage of parallel support efforts.

(U) E. MAJOR PERFORMERS:

COMPOSITE TRACKING NETWORK:

FY03 NSWC, Crane, IN, Engineering services. Jan 03

CLAWS:

- FY02 Raytheon, Sudbury, MA; Product development and developmental test. Dec 01
- FY02 White Sands Missile Range, White Sands, NM; Developmental testing . Jun 02
- FY02 Northrop Grumman, Stafford, VA; Program support. Oct 01
- FY03 Raytheon, Tewkbury MA Product development and developmental test Jan 03
- FY03 MCSC, Quantico VA CEOSS Omnibus Contract program support Jan 03
- FY03 White Sands Missile Range White Sands NM Developmental Test Jan 03
- FY04 Raytheon, Sudbury, MA; Product development and developmental test. Jan 04
- FY04 White Sands Missile Range, White Sands, NM; Developmental testing. Jan 04
- FY04 MCSC, Quantico VA, CEOSS Omnibus Contract; Program support Jan 04
- FY05 White Sands Missile Range, White Sands, NM; Developmental Test Jan 05
- FY05 MCSC, Quantico VA CEOSS Omnibus Contract, Program support Jan 05

		Evhibit D 2 Coot Analysis					DATE:			Fak		2003		
APPROPRIATION/BUDGET		Exhibit R-3 Cost Analysis PROGRAM E	LEMENT				DDO IE	CT NUMB	ED AND		oruary 2	:003		
RDT&E, N /BA 7 Operation	_			ns Comm	unicatio	n Svs		-		ons Syste	me			
Cost Categories		Performing	Total	p3 0011111	FY 02		FY 03	Deleti	FY 04		FY 05	Ι		
(Tailor to WBS, or Sys/Item	Method		PY s	FY 02		FY 03		FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
CWAR	RCP	Raytheon, Pelham NJ	0.000	0.124	01/02	0.000						Cont.	Cont.	
CWAR	MIPR	Redstone Arsenal, AL	0.000	0.000		0.269	01/03					0.000	0.137	0.137
S/M Range Air Defense Rdr	MIPR	Warner Robbins, GA	0.000		01/02	0.107						Cont.	Cont.	
CTN	RCP	Lockheed, Syracuse NY	0.482	0.217		0.706						Cont.	Cont.	
CTN	WR	NSWC, Dahlgren, VA	0.590			0.227	01/03					Cont.	Cont.	
CTN	WR	NSWC, Crane, IN	1.955	0.917	06/02	9.419	01/03					Cont.	Cont.	
CTN	RCP	Raytheon, St Ptrsbrg, FL	0.365	0.508	04/02	0.500	01/03					Cont.	Cont.	
CTN	WR	Solipsys, Laurel, MD	1.031	0.050	01/02	0.050	01/03					0.000	1.131	
CID	WR	NSWC, Crane, IN	0.000	0.285	02/02	0.000		0.000		0.251	01/05	Cont.	Cont.	
CLAWS	RFP	Raytheon, Bedford, MA	5.500	4.109	12/01	2.000	01/03	6.776	01/04			0.000	18.385	
CLAWS	MIPR	Redstone Arsenal, AL	0.000	0.257	01/01							0.000	0.257	0.257
MRRS	RCP	Raytheon, Sudbury, MA	0.000	0.000		0.700	01/03					0.000	0.700	
LAAD SUSTAINMENT	RCP	NSWC, Crane, IN	0.000	0.000		0.156	01/03	1.525	01/04			0.000	1.681	
LAAD SUSTAINMENT	RCP	TBD	0.000	0.000		0.000		0.000		1.101	01/05	Cont.	Cont.	
PMS	RCP	NSWC, Crane, IN	0.000	0.000		0.000		0.407	01/04	0.089	01/05	Cont.	Cont.	
Subtotal Product Dev			9.923	6.807		14.134		8.708		1.441		Cont.	Cont.	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
SH/Med Rng Air Def Radar	WR	NSWC. Crane, IN	0.000			0.060						Cont.	Cont.	
CWAR	WR	NSWC. Crane, IN	0.000			0.000						0.000		
CID	RCP	MCSC, Quantico, VA	0.450	0.126		0.202		0.150		0.374		0.000	1.302	0.652
CID	WR	NSWC, Crane, IN	0.150			0.323		0.225	10/03	0.225	01/05	0.000	0.923	0.563
CID	RCP	GSA, Bremerton, WA	0.760	0.000		0.397	01/03					0.000	1.157	1.195
CTN	WR	MCLB Albany, GA	0.020	0.002		0.010						Cont.	Cont.	
CTN CTN	MIPR WR	STA, FtWorth, TX CG 1st MAW	0.432 0.014	0.178 0.004		0.160 0.010						Cont. 0.000	Cont. 0.028	0.010
CTN	WR	2ND MAWChPt, NC	0.014	0.004		0.010	01/03					0.000	0.028	0.010
CTN	WR	3rd MAW San Diego, CA	0.003	0.002								0.000	0.005	
CTN	WR	MARFORPAC	0.003	0.002								0.000	0.003	
CTN	WR	MCSC, Quantico, VA	0.085			0.060	01/03					Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000			0.200		0.400	01/04	0.200	01/05	Cont.	Cont.	
CLAWS	MIPR	RedstoneArsenal, AL	0.000	0.233		0.300		0.300		0.225		Cont.	Cont.	
CLAWS	RCP	NSSC, Natick, MA	0.000			0.020		0.200			01/05	Cont.	Cont.	
CLAWS	RCP	NSWC, Crane, IN	0.000	0.170	03/02	0.200	01/03	0.200	01/04	0.210	01/05	Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000	0.431	03/02	0.500	01/03	0.900	01/04	0.400	01/05	Cont.	Cont.	
CLAWS	MIPR	GSA, Dallas, TX	0.000	0.089		0.125	01/03	0.125		0.140		Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000	0.087	04/02	0.100	01/03	0.600	01/04	0.085	01/05	Cont.	Cont.	

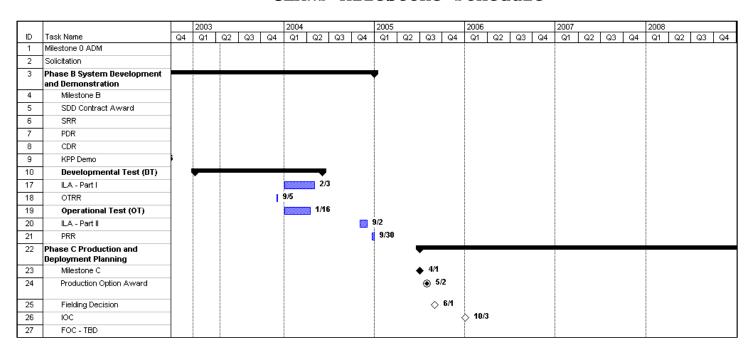
R-1 SHOPPING LIST - Item No. 187

		Exhibit R-3 Cost Analysis					DATE:			For	oruary 2	2003		
APPROPRIATION/BUDGET			LEMENT				DDO IE	CT NUMB	ED AND		Ji uai y Z	.003		
RDT&E, N /BA 7 Operation	_			nc Comm	unicatio	n Svc				ons Syste	mc			
Cost Categories		Performing		ps Comm	FY 02		FY 03	All Deletis	FY 04	ons syste	FY 05			
(Tailor to WBS, or Sys/Item		_	Total PY s	FY 02				EV 04		FY 05		C = = 1 + =	Tatal	Toward \/alus
	Method	Activity &		Cost	Award	FY 03 Cost	Award Date	FY 04 Cost	Award Date	Cost	Award	Cost to Complete	Total Cost	Target Value of Contract
Requirements) LAAD SUSTAINMENT	& Type MIPR	Location TBD	0.000		Date	0.000	Date	0.000			Date 01/05	Complete Cont.	Cost Cont.	or Contract
MRRS	MIPR	GSA, Bremerton, WA	0.000				04/03	0.000		0.100	01/03	0.000		2.050
Subtotal Support	IVIIPK	GSA, Bremerton, WA	1.919			4.717	04/03	3.100		1.974		Cont.	Cont.	2.050
Remarks:	1		1.010	1.070			Į	0.100		1.07		00111.	00111	
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &		FY 02		FY 03		FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date		Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
CWAR	RCP	Raytheon, Pelham NJ	0.000		07/02	0.000	2 4.10	000.	2 4.10	000.	2 4.10	0.000		0.121
SHORT/MEDIUM RANGE	RCP	Warner Robbins, GA	0.000				01/03					Cont.	Cont.	0
CID	WR	CECOM, Ft Monmouth	0.000			0.000	0.700	0.500	01/04	0.500	01/05	Cont.	Cont.	
CTN	WR	Port Hueneme, CA	0.018			0.018	01/03	0.000	0.70.	0.000	0.700	Cont.	Cont.	
CTN	WR	MCTSSA, Cp Pndltn,CA	0.003			0.035						Cont.	Cont.	
CTN	WR	MACS24 Damneck,VA	0.087	0.012		0.016						Cont.	Cont.	
CTN	MIPR	DCMS, Syracuse, NY	0.022			0.002						Cont.	Cont.	
CLAWS	WR	White Sands, NM	0.000			2.000		2.200	01/04	1.000	01/05	0.000	5.300	0.800
CLAWS		MCOTEA	0.000			0.125		0.500		0.125		Cont.	Cont.	0.000
CLAWS	MIPR	Aberdeen, Md	0.000				,		,		0.7,00	0.000	0.142	0.142
CLAWS	RCP	Raytheon, Tewksbury, MA	0.000	0.000		2.820	03/03	1.500	10/03			Cont.	Cont.	-
CLAWS	MIPR	JSPO, Eglin, AFB, FL	0.000			0.000		2.865		0.820	10/04	Cont.	Cont.	
LAAD SUSTAINMENT	MIPR	TBD	0.000			0.000		0.053	01/04	0.340		Cont.	Cont.	
PMS	RCP	Boeing, Huntsville, AL	0.000	0.000		0.000		0.060			01/05	Cont.	Cont.	
Subtotal T&E		,	0.130	0.711		5.246		7.678		2.865		Cont.	Cont.	
Remarks:	•						•							
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
CTN	RCP	Logicon, Stafford, VA	0.591	0.277		0.487	01/03					Cont.	Cont.	
CID	RCP	NorthGrum, Stafford, VA	0.000			0.200		0.250		0.250		0.000	0.889	
CID	RCP	Anteon, Stafford, VA	0.000	0.000		0.340		0.812	01/04	0.624	01/05	Cont.	Cont.	
MRRS	MIPR	GSA, Bremerton, WA	0.000			0.650						Cont.	Cont.	
MRRS	WR	MCSC	0.000			0.100						Cont.	Cont.	
MRRS	RCP	Anteon, Stafford, VA	0.000			0.400						Cont.	Cont.	
CLAWS	RCP	NGIT, Stafford, VA	0.463	1.116	10/01	2.000	01/03	2.500	01/04	1.912	01/05	Cont.	Cont.	
CLAWS	RCP	SAIC, Washington, DC	0.000	0.383	11/01									
LAAD SUSTAINMENT	RCP	MCSC, Quantico, VA	0.000	0.000		0.000		0.150		0.300		Cont.	Cont.	
LAAD SUSTAINMENT	WR	NSWC. Crane, IN	0.000	0.000		0.000		0.200		0.200		Cont.	Cont.	
PMS								0.030			01/05	Cont.	Cont.	
Subtotal Management			1.054	1.965		4.177		3.942		3.316		Cont.	Cont.	
Remarks:	1	T	1	1	,	1	ı	1	1				1	
Total Cost				11.156		28.274		23.428		9.596		Cont.	Cont.	

R-1 SHOPPING LIST - Item No. 187

			DATE:
Exhibit	R-4/4a Project Schedule/Detail		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT N	NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communication Sys	C2278 Air [Defense Weapons Systems

CLAWS Milestone Schedule



Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(APPN, BLI #, NOMEN)										
(U) RDT&E,N	7.434	10.390	19.066	5.132	1.764	1.861	0.926	0.966	Continuing	Continuing
(U) PMC BLI# 489000 CLAWS	0.000	0.000	0.000	17.993	26.727	28.188	19.728	3.609	Contnuing	Continuing
(U) PMC BLI# 305000 CLAWS MISSILES	0.000	0.000	0.000	0.000	22.667	19.280	49.186	24.352	0.000	115.485

							DATE:				
Exhibit R-4/4a Project Schedule/Detail February 2003										ļ	
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT							PROJECT NUMBER AND NAME				
				rps Communication Sys			C2278 Air Defense Weapons Systems				
	CLAWS SCHEDULE DET	AIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	Development Testing			1Q							
	Operational Testing				1Q						
	Fielding Decision					3Q					
	Initial Operational Capability						1Q				
											ļ

DATE: Exhibit R-4/4a Project Schedule/Detail February 2003 APPROPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAME PROGRAM ELEMENT RDT&E, N /BA 7 Operational Sys Dev 0206313M Marine Corps Communication Sys C2278 Air Defense Weapons Systems **MCTIS Milestone Schedule** FY98 FY99 | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 Total Milestone 0 Oct 97 MCTIS ORD Market Survey LCCE Risk Management ACQ Strat. Prep. APB Prep. RFP Prep. & Issue Eval. Proposals Milestones □ MS A MS B □ MS C Contract Award E&MD Integration/Testing Production CCID/ACTD Eval. Program Funding Summary FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Compl **Total Cost** (APPN, BLI #, NOMEN) (U) R&D Air Defense Weapons Systems (Combat ID) 0.600 0.000 0.000 0.000 0.000 0.000 0.000Continuing 1.462 Contnuing (U) RDT&E,N 0.000 0.000 1.937 2.224 2.831 6.702 7.166 2.339 Continuing Continuing (U) PMC BLI# 464000 Air Ops C2 Systems 0.000 0.000 0.000 0.000 0.000 0.000 0.500 15.300 Contnuing Continuing

	Evhibit D	4/4a Project Schodul	o/Dotoil				DATE:		February 20	102
PPROPRIATION/BUI	DGET ACTIVITY	4/4a Project Schedul PROGRAM ELEMENT 0206313M Marine Co		unication Sy	rs	PROJECT I	l NUMBER AN Defense We a	ID NAME		103
	TIS SCHEDULE DETAIL		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Mile	stone A			4Q						
Mile	stone B						4Q			
Integ	gration Testing						1Q			4Q
<u> </u>										
<u> </u>										

EXHIBIT R-2a, RDT&E Project Justification							DATE:				
							F	ebruary 2003	3		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUN	IBER AND NAI	ЛΕ		PROJECT N	JMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Development	0206313M M	arine Corps (Communication	n Systems		C2315 Traini	ing Devices/S	g Devices/Simulators			
									Cost to	Total	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program	
Project Cost	13.073	8.580	12.423	8.317	8.434	5.651	4.293	4.446	Cont	Cont	
RDT&E Articles Qty											

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) Training simulators supported by this program element include Joint Simulation System (JSIMS), Closed Loop Artillery Simulation System (CLASS), Multiple Integrated Laser Engagement System (MILES 2000), Special Effect Small Arms Marking System (SESAMS), and Combined Arms Command & Control Training Upgrade System (CACCTUS). These training systems provide tactical weapons and decision-making skill training from entry level through Marine Air-Ground Task Force (MAGTF) staff level. CLASS integrates Marine Corps training requirements with AFATDS (Advanced Field Artillery Tactical Data System). Together these systems will be interoperable and will allow for mission planning, mission rehearsal and concept evaluation in a valid synthetic environment with objective, timely feedback. Through live, virtual and constructive simulation, the Marine Corps will have the means to train jointly, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations and define operational requirements.

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	6.012	4.633	0.602	0.000
RDT&E Articles Qtv				

JSIMS: Provide technical expertise to the US Army, US Navy and US Air Force in the development of USMC specific requirements. Participate in Federate Integration Event 4 and 5 and Functional Assessment 2. Complete Version Release Milestone (VRM) 1.0 in FY03.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.107	0.547	6.612	3.432
RDT&E Articles Qty				

CLASS: Map system design functions to requirements. Evaluation of system design and software for CLASS subsystems. Development of Instructor Management System and software support. system. Develop highest priority database; develop Howitzer Interface Function (MIF) and Master Control Station (MSC) subsystems; complete closed-loop development. Complete development and integration of hardware and software; complete garrison and shipboard versions; complete prototype.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	4.954	3.400	4.199	3.150
RDT&E Articles Qty				

CACCTUS: Research Development Test and Evaluation (RDT&E) efforts. Upgrade and enhance one site of Command Arms Staff Trainer (CAST) software.

EXHIBIT R-2a, RDT&E Project Justification				DATE:		
.,				February 20	03	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	BER AND NAME	PROJECT	NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps C	aining Devices/Simulators				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.544	0.994		
RDT&E Articles Qty						
MILES: Develop and integrate ground position loc	cation into fielded MILES 2000 e	equipment. Integrate MK19 40	mm machine gun and othe	er new ground weapons systems	into existing MILES 200	
inventory.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005		
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.466	0.741		
RDT&E Articles Qty						
SESAMS: Develop and integrate SESAMS capabi	lity into MILES 2000 to create co	ompatibility between two syste	ems.			
(U) Total \$	13.073	8.580	12.423	8.317		
•						

EXHIBIT R-2a, RDT&E Project Justification						D	DATE:			
ADDDODDIATION/DUDGET ACTIVITY	IDDOOD AM ELE	NACNIT NILINADI		_	l _E	DO IECT NI II		bruary 2003	<u> </u>	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELE 0206313M Mar					ROJECT NÜI 2315 Trainin				
(U) PROJECT CHANGE SUMMARY:	UZUUS ISIVI IVIAI	ille Corps Cor	Illinumcation	Systems		2313 ITAIIIII	g Devices/Si	iliulatoi 5		
(e) Thouse Tellin (oz senzimin)	FY2002	FY2003	FY2004	FY2005						
(U) FY 2003 President's Budget:	13.548	6.145	4.464	3.208						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions	-0.037	-0.245	-4.794	-3.403						
(U) Congressional Rescissions										
(U) Congressional Increases		3.400								
(U) Reprogrammings	-0.227	-0.720	12.761	8.514						
(U) SBIR/STTR Transfer	-0.211									
(U) Minor Affordability Adjustment			-0.008	-0.002						
(U) FY 2004 President's Budget:	13.073	8.580	12.423	8.317						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: Change in funding for FY03 of Change in FY 04 and FY05 is due to re(U) Schedule: Not Applicable.				os.						
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY	' :									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) PMC, BLI# 653200 Trng Dev/Sims	29.867	19.244	19.988	35.537	20.776	16.386	11.142	10.972	Continuing	Continuing
(U) Related RDT&E: Not Applicable										
(U) D. ACQUISITION STRATEGY: (U) JSIMS - Competitively awarded Level of Effor (U) CLASS - Awarded R & D to Aegis Technology Hardware will be awarded on a separate competive (U) CACCTUS - Competitive cost plus fixed fee co (U) MILES - Competitively award Cost Plus Incent (U) SESAMS - Competitively award Cost Plus Incent	, July 02 (CPFF). e FFP contract in ontract (CPFF). tive Fee (CPIF) de	FY05. evelopment co	ntract.	ee (CPFF) co	ontract.					
(U) E. MAJOR PERFORMERS:										
Not Applicable for any programs with Training Devi	ices/Simulators, C	2315.								

							DATE:							
		Exhibit R-3 Cost Analysis								ary 2003	3			
APPROPRIATION/BUDGET AC	TIVITY	PROGRAM EL					PROJE	CT NUME	BER AND	O NAME				
RDT&E, N /BA 7 Operational 3		opment 0206313M Ma	rine Corps	Commur	nication S	Systems	C2315	Training	Devices	/Simulat	ors			
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Software Development	RCP	SPAWAR, San Diego, CA	12.665	0.830	12/01	0.830	12/02	0.000		0.000		Cont.	Cont.	
Software Development	MIPR	STRICOM, Orlando, FL	0.850	1.000	12/01							0.000	1.850	1.85
Software Development	WR	SPAWAR, San Diego, CA	2.921	0.213	12/01	0.224	12/02	0.602	12/03			Cont.	Cont.	
Software Development	RCP	MCSC, Quantico, VA	0.000	1.814	12/01	1.061	12/02	0.698	12/03			Cont.	Cont.	
Software Development	TBD	MCSC, Quantico, VA	0.000	2.102	12/01	0.573	12/02	2.000	03/04	0.274	03/05	Cont.	Cont.	
Subtotal Product Dev			16.436	5.959		2.688		3.300		0.274		Cont.	Cont.	
Remarks:	ı					1					1			
I														
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Software Development	RCP	MTS, San Diego, CA	5.000	3.853	06/02			0.646	06/04	2.852	03/05	Cont.	Cont.	
Software Development	RCP	TBD						1.000	12/03	3.300	12/04	Cont.	Cont.	
Software Development	RCP	NAWC, Orlando, FL				1.400	03/03					Cont.	Cont.	
Software Development	MIPR	PEO STRI, Orlando FL				1.400	03/03					Cont.	Cont.	
Software Development	RCP	TBD						6.469	03/04	1.443	03/05	Cont.	Cont.	
Subtotal Support			5.000	3.853		2.800		8.115		7.595			27.363	
Remarks:					•				•					
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Developmental Test & Eval	MIPR	CECOM, FT Monmouth, N				0.200	12/02	0001	Date	0001	Date	Cont.	Cont.	Contract
Subtotal T&E	IVIII IX	GEGGIN, 1 1 Wollington, 14	3.094	0.200	12/01	0.200	12/02					Cont.	Cont.	
Remarks:	1		0.00	0.200	I.	0.200	1	Į.			1	Conta	Cont.	
	-	T		1	1	1	1	1			1	1		
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Contractor Engineering Suppt	WR	NAWC, Orlando, FL		0.450				0.277	06/04	0.255	06/05	0.000	0.982	0.98
Govt Engineering Suppt	WR	NAWC, Orlando, FL	1.059					0.139	06/04	0.193	12/04	Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL	0.297	0.159	12/01	0.195	12/02					Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL				0.600	03/03					Cont.	Cont.	
Program Management Suppt	RCP	MCSC, Quantico, VA	0.015			2.097	12/02					Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL		0.570	12/01			0.466	12/03		<u> </u>	Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL						0.126	12/03			Cont.	Cont.	
Subtotal Management			1.371	3.061		2.892		1.008		0.448		Cont.	Cont.	
Remarks:														
Total Cost	1	T		13.073		8.580		12.423		8.317	·I	Cont.	Cont.	
Total Oost	1	1	ı	13.073	1	0.560	ı	12.423	L	0.517	L	Cont.	Cont.	<u> </u>

			UN	JLF	122		:D								
												ATE:			
Exhib Appropriation/budget activity	it R-4/4a Sched			Detail						PR∩	ECT N	IUMBER A	Februar	y 2003	
RDT&E, N /BA 7 Operational Sys Development	0206313M N			: Com	munio	cation	Syste	ms					es/Simulate	ors	
	•		•				_								
			JSIA	AS P	ROG	RAN	I SCH	HED	ULE						
<u> </u>		FY96	FY99	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06			
Contract Award		•	2 Dec 9	6											
Version 1.0 Developme	ent	•							Feb 00-S	ep 03					
Federation Integration								-	Feb/Mar	02					
Federation Integration								_	May/Jur	02					
_															
Federation Integration	Event 3								■ Jul/Au	g 02					
Federation Integration	Event4								■ Oc	/Nov 02					
Maintenance Events									–	Jan/Jui	03				
Version 1.0 VRM									•	Sep 0	3				
			1	' '			1	1	1	l	1	1 1			
Other Program Funding Summary															
(APPN, BLI #, NOMEN)				2002	<u>FY 2</u>		FY 20		FY 2005		2006	FY 2007	FY 2008	FY 2009	To Compl
(U) RDT&E,N (JSIMS) (U) PMC, BLI# 653200 Trng Dev/Sims (JSIMS)				6.012 1.828		.633 .491		502 000	0.000		0.000	0.000	0.000		Continuing Continuing

			UNCL	<u> Aooifi</u>				ſ			
								DATE:			
	Exhibit	R-4/4a Schedule P	rofile/Detai	Ī					Februa	ry 2003	
APPROPRIATION/BU	DGET ACTIVITY	PROGRAM ELEME	ENT				PROJECT	NUMBER /	AND NAME		
					C						
RDI&E, N /BA / Ope	erational Sys Development		Corps Coi	nmunicatio	n Systems	5 1	C2315 1ra	ining Devic	ces/Simulat	ors	
	JSIMS SCHEDULE DETA	\IL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	Version 1.0 Software Develop	ment		2Q							
									 		
									 		
									 		
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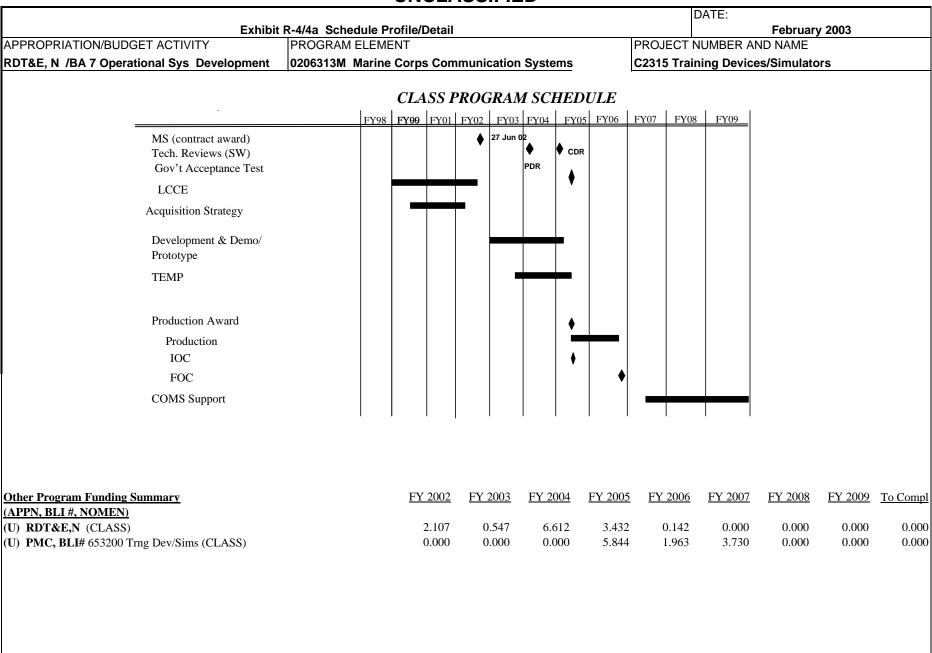


	Exhibit	R-4/4a Schedule P	rofile/Detai	ı				DATE:	Februa	ry 2003	
APPROPRIATION	N/BUDGET ACTIVITY	PROGRAM ELEME		-			PROJECT	T NUMBER AND NAME			
RDT&E, N /BA 7	Operational Sys Development	0206313M Marine	Corps Cor	nmunicatio	n Systems	S	C2315 Tra	ining Devi	es/Simula	tors	
	CLASS SCHEDULE DETA	AIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	Contract Award		3Q								
	Preliminary Design Review (PI	OR)			1Q						
	Critical Design Review (CDR)					1Q					
	Development/Demonstration/P	rototype ·				2Q					
	Test & Evaluation					3Q					
	Production Award					3Q					
	Initial Operational Capability (I	OC)				3Q					
	Full Operational Capability (FC	OC)					4Q				

EXHI	BIT R-2a, RDT&	E Project Jus	stification				DATE:				
						February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM I	ELEMENT NU	MBER AND I	NAME		PROJECT N	JMBER AND	NAME			
RDT&E, N /BA-7 Operational Systems Dev	0206313M M	larine Corps	Communicat	ions Systems	S	C2510 MAG	F CSSE & S	E			
									Cost to	Total	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program	
Project Cost	5.011	4.376	23.488	18.094	10.643	8.146	8.431	8.634	Cont	Cont	
RDT&E Articles Qty											

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) The MAGTF Combat Service Support Element & Supporting Establishment (CSSE & SE) consists of mutually supporting Logistics Information Technology (IT) programs that support force deployment, planning, and execution; sustainment and distribution; and contribute to the Combatant Commander's Common Operating Picture (COP) to support rapid accurate decision making.
- 1. The ATLASS PIP program funds the improvement of the existing ATLASS II+ software as well as the migration of base and station (non-deployable) USMC intermediate and consumer level supply and maintenance systems from a mainframe environment into a personal computer application using a network client-server architecture. The ATLASS PIP consolidates the total force intermediate and consumer level supply and maintenance information management functions into a single material management system. ATLASS PIP enhances ATLASS II+, retires existing mainframe legacy applications in use by the bases and stations, and improves logistic support to the operating forces. ATLASS PIP retains the flexibility to exploit existing commercial and government off-the-shelf software. This system remains compliant with the MAGTF C4I concept, GCCS COE, and published DOD standards for open systems architecture.
- 2. TCAIMS II provides the hub for the OSD mandated Joint transportation suite of systems that will provide mobility and sustainment capability to all services and bring the Marine Corps into compliance with Department of Defense Reform Initiative 54. TC-AIMS II is a Joint transportation and deployment Automated Information System (AIS) supporting the DOD mission areas of mobility and sustainment. It will replace two of our MAGTF LOG AIS applications over a parallel transition starting in FY00. TC-AIMS II will be used by Command Elements, Traffic Management Offices (TMO), and all operating forces to automate the processes of planning, organizing, coordinating, and controlling deployment, redeployment, and sustainment activities worldwide, in peace as well as during contingencies. It provides modernized, scaleable, integrated, and easily deployable AIS that support reengineered deployment and business processes throughout DOD. TC-AIMS II is the key enabler towards Force Deployment Planning and Execution. It is the source system for In-Transit-Visibility (ITV) data, which provides Combatant Commanders and Components with critical visibility of items in the transportation pipeline. TC-AIMS II links all DOD Component unit movement and Installation Transportation Office/Traffic Management Office (ITO/TMO) functionality into a single transportation management system. It is a Joint ACAT 1A(M) program, with the USMC portion being handled as an ACAT III.
- 3. MAGTF CSSE&SE: The CSSE Shared Data Environment is a cornerstone concept of the Integrated Logistics Capability. It will incorporate data warehousing technologies and products to provide one-stop shopping for data supporting CSSE/SE decision-making processes. It will stage CSSE/SE data and integrate decision support tools (DST) to enable command and control (C2), situational awareness, and total asset visibility at all levels of command, from the Combatant Commander to the Company Commander. The establishment of the CSSE SDE will eliminate the need for individual applications to perform these tasks for themselves and will contribute to a more cost-effective, efficient application development environment. This program, Sharded Data Environment (SDE), has moved from Project C2906, PE 0605013M, MC Information Technology in FY04 and beyond.
- 4. Common Computer Resources (CCR) Marine Common Hardware Suite (MCHS) mission- Central and standardized management and acquisition of all Tactical common computer hardware and infrastructure adopting the Joint Defense Information Infrastructure (DII) Common Operating Environment (COE) with consolidated Integrated Logistics Support. Ensure the environment remains in synchronization with computer hardware technology hardware improvements. The mission supports the Commandant's Planning Guidance and input to the Marine Corps Master Plan. Funding for this program in FY 02 and FY03 is found under Project C2277 of this PE.
- 5. Global Combat Support System (GCSS)MC is the physical implementation of the enterprise information technology architecture designed to support both improved and enhanced MAGTF Combat Service Support functions and MAGTF Commander and Combatant Commander/Joint Task Force (JTF) combat support information requirements. As such, GCSS-MC is not a single system but a portfolio of information technology capabilities tied to discrete performance measures that support required combat service support mission objectives.

EXHIBIT	EXHIBIT R-2a, RDT&E Project Justification					
			February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT N	UMBER AND NAME			
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Communications Systems	C2510 MAG	TF CSSE & SE			

The ILC Analysis provided the foundation for logistics transformation within the Marine Corps and established a compliance response to DRID 54, directing that logistics transformation be accomplished throughout the service components. Immediately following the guidance of DRID 54, the GCSS-Capstone Requirements Document (CRD) was approved by the JROC. The GCSS CRD requires an IOC in FY04 and FOC in FY06. Specific ILC objectives are desired by 2004. GCSS-MC is the IT solution to accomplish the transformation and GCSS objectives. GCSS-MC is an integrated set of capabilities. The capabilities will be implemented within a bottoms-up (programs of record) approach within a portfolio of systems. The portfolio of systems contributes to the primary capabilities of GCSS-MC. External portfolios will also contribute secondary to GCSS-MC capabilities through integration strategies. Primary capabilities are supply chain and combat service support oriented.

Secondary capabilities and aspects of some of the above are achieved through integration with the Manpower, Acquisition and other portfolios as well as integration with Joint and other Service systems. This integration will migrate the current Shared Data Environment (SDE), Total Force Structure Management System (TFSMS), and Automated Information Technology (AIT) to an integrated Detailed Planning and Current Operations System over the long-term. The capabilities are to be matched against systems remaining after the system realignment and categorization process and then assessed for compliance, alignment and cost effectiveness versus readily available COTS and GOTS products. The GCSS-MC portfolio seeks to most effectively achieve the mandated requirements through provisioning of the capabilities not extending specific systems.

GCSS-MC is the IT solution for logistics transformation being developed by the ILC. The ILC Analysis was completed during an 18-week engagement beginning in late October 1998 to early February 1999. This analysis concluded with a high-level Business Case Analysis (BCA). The BCA concluded conservatively that accomplishing the ILC actions (including re-engineered IT among others) would reduce Marine Corps inventories and reduce support requirements allowing the shifting of (2000) Marines from logistics to the battlefield by 2004 (given the current timelines). ILC action will also result in: lighter, more flexible and easier to move MAGTF; Higher CSS responsiveness: reduced stocks and CSS footprint inside the MAGTF; Less equipment for Warfighter to manage; Rapidly scaleable and deployable CSS units that have worldwide inventory visibility. Access to more reliable, accurate and actionable information that clarifies the logistics situational awareness; near real time visibility of requests for products and services allowing higher confidence and trust in logistics; and the ability to operate with greater certainty.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.650	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Software development efforts ass	ociated with ATLASS II+.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.622	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Program Management Support				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.254	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Development of alternative cours	es of action and Acquisition Stra	tegy for Logistics and related	systems transformation.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.834	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Development of an adaptive logi	stics command and control tool t	o support the planning and ex-	ecution of expeditionary opera	ations.
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
			0.000	0.000
Accomplishment/Effort Subtotal Cost	1.062	0.000	0.000	0.000
	1.062	0.000	0.000	0.000
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty		0.000 FY 2003	0.000 FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Post Phase One for the replacement	ent of ATLASS II+.			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Post Phase One for the replaceme COST (\$ in Millions)	ent of ATLASS II+. FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Post Phase One for the replaceme COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ent of ATLASS II+. FY 2002 0.000	FY 2003 1.868	FY 2004 0.000	FY 2005 0.000
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Post Phase One for the replaceme COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	ent of ATLASS II+. FY 2002 0.000	FY 2003 1.868	FY 2004 0.000	FY 2005 0.000
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Post Phase One for the replaceme COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty ATLASS PIP: Subsystem/components develope	ent of ATLASS II+. FY 2002 0.000 nent and concept/tech demonstra	FY 2003 1.868 tion of new system concepts a	FY 2004 0.000 associated with COTS replaced	FY 2005 0.000 ment.

EXH	IBIT R-2a, RDT&E Project	Justification		DATE:	
				Febru	ary 200
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	NUMBER AND NAME	PROJEC	T NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Cor	ps Communications Syst		IAGTF CSSE & SE	_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.190	0.701	
RDT&E Articles Qty					
CCR/MCHS: Environmental testing of CISC/F	RISC workstations.				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.605	0.580	
RDT&E Articles Qty					
CCR/MCHS: Environmental testing of CISC/F	RISC servers.	•	•		_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.299	0.241	
RDT&E Articles Qty					
CCR/MCHS: Technology Insertion.		•	•		_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.299	0.300	
RDT&E Articles Qty					1
GCSS/AIT: Development of software with AIT	Γ capabilities in conjunction w	rith the DOD AIT implementa	tion plan.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.550	0.500	1
RDT&E Articles Qty			-		1
GCSS/SDE: Program Support for configuration	n control board, systems integr	ration, data architecture, integr	ated process team(s), and str	ategic plan update.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	1
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.350	0.000	
RDT&E Articles Qty	0.000	0.000	0.000	0.000	-
GCSS/SDE: Analysis and survey of ILC Proof-	of-concept (POC) implementa	ation.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.425	0.400	
RDT&E Articles Qty	0.000	0.000	0.420	0.400	
GCSS/SDE: Requirements determination for II	.C/GCSS MC data warehouse	reference data, and informati	on exchange repository.		_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	1
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.350	0.500	-
RDT&E Articles Qty	0.000	0.000	0.000	0.000	
GCSS/SDE: Development of supporting system	ns architecture to support ILC	POC.	L	L	_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.255	0.200	1
RDT&E Articles Qtv	0.000	0.000	0.200	0.200	1
GCSS/SDE: Register ILC POC systems/data in	to Data Management and Inte	roperability Repository.	L	1	
			FV 0004	FV 2005	7
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.000	FY 2003 0.000	FY 2004 0.550	FY 2005 0.300	4
RDT&E Articles Qty	0.000	0.000	0.550	0.300	-
,	visanment solotie - t- II C DO	Tu to include CCSS MC COTT	P maduata mictit	and intenfere greaters	
GCSS/SDE: Data Analysis of data/software en			· · · · · · · · · · · · · · · · · · ·		7
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.000	FY 2003 0.000	FY 2004 0.325	FY 2005 0.300	4
Accomplishment/Εποτί Subtotal Cost RDT&E Articles Qty	0.000	0.000	0.323	0.300	-
GCSS/SDE: Integrate ILC POC systems/data in	ato the Integrated Legistics De	nta Madal		l	J
					_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	_
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.200	1.200	4
RDT&E Articles Qty					

EXH	IBIT R-2a, RDT&E Project Justi	fication		DATE: February	v 2002
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	RED AND NAME	DPO IECT	NUMBER AND NAME	y 2003
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Co			GTF CSSE & SE	
COST (\$ in Millions)	FY 2002	FY 2003		· ·	
Accomplishment/Effort Subtotal Cost	0.000	0.000	FY 2004 0.755	FY 2005 0.700	
RDT&E Articles Qtv	0.000	0.000	0.755	0.700	
GCSS/SDE: Design and development of SDE I	I C/CCSS MC Information Evolung	a remository			
GCSS/SDE: Design and development of SDE I	LC/GCSS MC information Exchange	e repository.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.455	0.409	
RDT&E Articles Qty					
GCSS/SDE: Data analysis and Cleansing of leg	gacy data for successive implementat	ion of GCSS MC COTS produ	icts.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.000	0.700	
RDT&E Articles Qty		5.000		560	
GCSS-MC Enabler/WarPortal: Preparation o	f development and test servers and s	ytems integration, demonstration	on and testing.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.900	0.300	
RDT&E Articles Qty					
GCSS-MC Enabler/WarPortal: Integration se	ervices for data center build out, Ope	erational Tests and establishmen	nt of production operator	ns.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.100	0.000	
RDT&E Articles Qty					
GCSS-MC Enabler/WarPortal: Conference re	oom pilots and functional testbeds for	or product configuration and de	velopment planning.	-	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.000	0.000	
RDT&E Articles Qty					
GCSS-MC Supply Chain/LSM: Order Manag	ement Capability to plan, direct, mor	nitor, and control processes rela	ated to customer orders,	manufacturing orders and purchas	se orders.
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.000	3.395	
RDT&E Articles Qty	0.000	0.000	2.000	3.333	
GCSS-MC Supply Chain/LSM: Maintenance	Management Capability, which inclu	udes all types of maintenance, 1	repair and overhaul func	tions and is a core capability for re	eplacing ATLASS II+
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
	0.000	0.000	1.079	0.697	
Accomplishment/Effort Subtotal Cost				_	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty					
	ement Capability - The business func	ctions of developing resource re	equirements, identifying	sources of funding, determining c	ost, acquiring funds,
RDT&E Articles Qty		1 0		sources of funding, determining c	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and	l obligations, cost capturing and reim	nbursement, and establishing m	nanagement costs.		ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions)	d obligations, cost capturing and reim FY 2002	nbursement, and establishing m	ranagement costs. FY 2004	FY 2005	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	l obligations, cost capturing and reim	nbursement, and establishing m	nanagement costs.		ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	d obligations, cost capturing and reim FY 2002 0.000	bursement, and establishing m FY 2003 0.000	FY 2004 3.746	FY 2005	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Core	FY 2002 0.000 ntrol and Warehouse Management - l	FY 2003 0.000 basic functions required to repl	FY 2004 3.746 ace ATLASS II+.	FY 2005 1.502	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Cost COST (\$ in Millions)	FY 2002 0.000 ntrol and Warehouse Management - I FY 2002 1 1 1 1 1 1 1 1 1 1 1 1 1	hbursement, and establishing m FY 2003 0.000 basic functions required to repl FY 2003	10 Annagement costs. FY 2004 3.746 10 Annagement costs. FY 2004 THE PROOF THE PROO	FY 2005 1.502	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Col COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.000 ntrol and Warehouse Management - l	FY 2003 0.000 basic functions required to repl	FY 2004 3.746 ace ATLASS II+.	FY 2005 1.502	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Cor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2002	hbursement, and establishing m FY 2003 0.000 basic functions required to repl FY 2003 0.000	anagement costs. FY 2004 3.746 ace ATLASS II+. FY 2004 3.000	FY 2005 1.502	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Col COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Basic Service	h obligations, cost capturing and reim FY 2002 0.000 ntrol and Warehouse Management - 1 FY 2002 0.000 Pulfillment Capability, which is the	hbursement, and establishing m FY 2003 0.000 basic functions required to repl FY 2003 0.000 ability to manage user request	anagement costs. FY 2004 3.746 ace ATLASS II+. FY 2004 3.000 s for CSS services.	FY 2005 1.502 FY 2005 2.000	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Cor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Basic Service COST (\$ in Millions)	FY 2002	bursement, and establishing m FY 2003 0.000 basic functions required to repl FY 2003 0.000 ability to manage user request FY 2003	anagement costs. FY 2004 3.746 ace ATLASS II+. FY 2004 3.000 s for CSS services. FY 2004	FY 2005 1.502 FY 2005 2.000	ost, acquiring funds,
RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Asset Manage distributing/controlling funds, tracking costs and COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Inventory Col COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GCSS-MC Supply Chain/LSM: Basic Service	h obligations, cost capturing and reim FY 2002 0.000 ntrol and Warehouse Management - 1 FY 2002 0.000 Pulfillment Capability, which is the	hbursement, and establishing m FY 2003 0.000 basic functions required to repl FY 2003 0.000 ability to manage user request	anagement costs. FY 2004 3.746 ace ATLASS II+. FY 2004 3.000 s for CSS services.	FY 2005 1.502 FY 2005 2.000	ost, acquiring funds,

EXHIB	T R-2a, RDT&E I	Project Justi	ification			DATE:	
	•	-				Febr	uary 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUM	BER AND NA	ME	PROJECT	NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Dev	0206313M Mari	ine Corps Co	ommunicatio	ns Systems	C2510 MA	AGTF CSSE & SE	
COST (\$ in Millions)	FY 200)2	FY 200	03	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1	0.000)	0.000	0.250	
RDT&E Articles Qty							
GCSS-MC Supply Chain/LSM: Logistics Foreca	sting/Planning Cap	ability.					
COST (\$ in Millions)	FY 200)2	FY 200	03	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000)	0.000)	0.000	1.000	
RDT&E Articles Qty							7
GCSS-MC Decision Support/CLC2S: Enhancem	ents to meet addition	onal user and	architecture req	uirements, and	integrate with GCSS-M	C portfolio.	<u> </u>
COST (\$ in Millions)	FY 200)2	FY 200	03	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000		0.000		0.000	0.301	
RDT&E Articles Qty							
GCSS-MC Decision Support/CLC2S: Services to	transition S&T sy	stem into insti	itutional suppor	t.			<u> </u>
COST (\$ in Millions)	FY 200		FY 200		FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000		0.000		0.000	0.124	7
RDT&E Articles Qty	0.000		0.000		0.000	VIIZT	=
GCSS/TFSMS: User requested enhancements.							_
COST (\$ in Millions)	FY 200	12	FY 200	12	FY 2004	FY 2005	\neg
Accomplishment/Effort Subtotal Cost			0.295		0.547	0.000	
RDT&E Articles Qty	0.863		0.293	,	0.347	0.000	-
TC-AIMS II: Conduct operational test and evalua	tion of TC AIMS I	I Plooks por	ITMO coboquio	TC AIMS II	consists of 7 blocks, one	h block is individually avaluat	and during an IOT&E and has a
separate Milestone III decision.	uon of TC-Aiwis I	i. blocks per	J I WIO Schecule	. IC-AIMS II	consists of / blocks, eac	ch block is murvidually evalual	ed during an 101&E and has a
*							\neg
COST (\$ in Millions)	FY 200		FY 200		FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000)	0.000)	0.000	1.087	
RDT&E Articles Qty							
TC-AIMS II: Conduct service specific software e					· · · · · · · · · · · · · · · · · · ·		
COST (\$ in Millions)	FY 200		FY 200		FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.726	i	0.517	<i>'</i>	0.008	0.000	
RDT&E Articles Qty							
MAGTF CSSE & SE: Design & development of	_		aging backbone	, and integration	on with air/ship/rail load	and joint planning & executio	n tools. Conduct efforts to
migrate legacy system data and interfaces to the Sh	ared Data Environi	nent.					<u></u>
(U) Total \$	5.011		4.376		23.488	18.094	
(U) PROJECT CHANGE SUMMARY:	FY 2002	FY 2003	FY 2004	FY 2005			
(U) FY 2003 President's Budget:	4.558	4.867	0.576	0.581			
(U) Adjustments from the President's Budget:							
(U) Congressional Program Reductions	-0.012	-0.491	-0.470	-0.706			
(U) Congressional Rescissions							
(U) Congressional Increases							
(U) Reprogrammings	0.476		23.383	18.220			
(U) SBIR/STTR Transfer	-0.111		20.000	10.220			
(U) Minor Affordability Adjustment	0.100		-0.001	-0.001			
(U) FY 2004 President's Budget:	5.011	4.376	23.488	-0.001 18.094			
(0) FT 2004 FTeSlueIII S Budget:	5.011	4.3/0	43.488	10.094			
CHANGE SUMMARY EXPLANATION: (U) Funding: Change in FY02 reflects repr	ogramming action	ns need to co	ver under fund	led requireme	ents with Marine Corps	programs. Changes FY04	and FY05 are due to
realignment of programs within the Marine Corps.	3 3			- 1-		1 0 5	
(U) Schedule: TC-AIMS II Schedule chang (U) Technical: Not Applicable.	e is due to inaded	quate IOT&E	results, during	November a	and December 2001.		
(5) Toorinioai. Not Applicable.							

EXHIBI	T R-2a, RDT&E	Project Just	ification				DATE:			
								Februa	ry 2003	
APPROPRIATION/BUDGET ACTIVITY								AME		
RDT&E, N /BA-7 Operational Systems Dev							F CSSE & SE			
(U) C. OTHER PROGRAM FUNDING SUMMARY:	:									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI 464100 TC-AIMS II	2.623	5.181	0.000	0.682	0.000	0.000	0.000	0.000	0.000	8.486
PMC BLI 463000 CCR	27.410	38.168	54.982	68.486	80.550	96.380	97.515	99.804	0.000	563.295

8.589

4.177

0.928

0.625

0.199

Cont.

Con

(U) Related RDT&E: Not Applicable.

(U) D. ACQUISITION STRATEGY:

PMC BLI 461400 GCSS

ATLASS PIP: The current acquisition strategy is to stay with SSC Chesapeake, the developer for ATLASS II+ for development work.

0.000

TC-AIMS II: This is a joint program with the Army (PEO STAMIS). The purchase of computers will be made by PMIT and the peripherals will be made off a standard government list. The integration of the system will be performed by Global Systems, Inc. under a SPAWAR contract. TC-AIMS II is designed using a modular concept which will incorporate related functionality within a specific block. All of the block/modules will be individually tested (DT and OT), and fielded incrementally until the complete integration in 4th Qtr FY08.

8.077

Common Computer Resourses (CCR): To insure computer hardware in the operating forces keeps pace with industry computer hardware technical improvements.

0.000

GCSS-MC will pursue an evolutionary acquisition (EA) strategy in order to field an operationally suitable and supportable capability in the shortest time possible. This flexible strategy compliments the overwhelming support GCSS-MC receives from the entire decision making chain. EA offers the fastest method to field this highest of EA priorities and allows for requirements to be time-phased as the users become more familiar with the fielded system strengths and weaknesses. In addition to quicker fielding, an EA approach is particularly well suited to software intensive programs and offers these benefits: rapidly delivers an initial capability with the explicit intent of delivering continuously improved capability in the future and reduces "cycle time" from identification of emergent user requirements, priorities and fielding. EA ensures that systems are not technologically obsolete before fielding and that money is spent only on prioritized user requirements.

The GCSS-MC acquisition strategy is divided into two phases: optimization and modernization. The optimization phase, begun in FY01, will run through FY02, consists of planning, concept validation, operational architecture development, modeling, and Portal demonstrations. There are (2) initiatives, Autonomic Logistics (AL) and Logistics Command and Control (LC2), currently in the ACTD phase managed by ONR. The intent is to rapidly transition these advanced technology demonstrations into the GCSS Portfolio of systems beginning in FY04. The modernization phase begins at milestone C, is planned for FY03-FY09, and after initial fielding, will consist of a repetitive cycle of software improvement based on user feedback, testing, training, installation and fielding of subsequent block upgrades. Minor software upgrades will be released on a six month cycle. More substantial software improvement/system upgrade blocks will be fielded annually, as required and will include in addition to emergent user priorities, advanced technology improvements and expanded functionality. Preliminary assessment indicates that GCSS-MC will enter the acquisition gateway at milestone B, based on the architecture work already completed,

SRAC validation activities and recommendations, and Portal demonstrations. Tentative milestone dates are for MS B during the 1st quarter FY03 and MS C during the 4th quarter FY04, with fielding to begin in the latter part of FY04 with continued block upgrades thereafter. IOC is initially planned to be Portal capabilities, to include divesture of ATLASS I. FOC is validated when all Marine Corps ground components are using capabilities provided by GCSS-MC to include formal schools, and selected Marine Reserve Components. Exact milestone dates and criteria for IOC and FOC will be negotiated with the MDA as the acquisition strategy evolves.

(U) E. MAJOR PERFORMERS:

ATLASS PIP

FY02 - Gartner Group, McLean, VA, Software development, Alternative solutions for new Marine Corps supply system, Nov 2001

FY03 - Contracting information is not available at this time. Decission will be made during year of execution, Anticipate Apr 2003.

TC-AIM II

FY02 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2001

FY03 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2002

FY04 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2003

FY05 - Contracting information is not available at this time; to be determined.

MAGTF CSSE &SE

FY02 - Gartner Group Inc, Mclean, VA and Robins Gioia, Alexandria, VA, Contractor support, Feb 2002.

FY03 - Contractor will be selected during year of execution, anticipate Apr 2003.

CCR/MCHS

FY04 - NWSC, Crane, IN, Environment testing of servers and workstations, Jan 2004

FY05 - NWSC, Crane, IN, Inserting new technology into servers and workstations, Jan 2005.

GCSS

FY04 - This is a new start program. Contracting information will be determined at a later date.

FY05 - Contracting information will be determined at a later date.

								DATE:						
Exhibit R-3 Cost Analysis											ebruar	y 2003		
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM ELEMENT						PROJEC	T NUM	BER AND	NAME			
RDT&E, N /BA-7 Operation	al Sys Dev	0206313M Marine Corp	s Commu	nication	s Syste	ms		C2510 N	AGTF (CSSE S&	E			
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
ATLASS PIP	WR	SSC Chesapeake	1.443	0.650	12/01							Cont.	Cont.	
ATLASS PIP	RCP	MCSC, Quantico, VA		2.709	11/01	1.868	04/03					Cont.	Cont.	
ATLASS PIP	TBD	TBD				1.696	04/03					Cont.	Cont.	
TC-AIMS II	C/FFP	MCSC, Quantico, VA	0.000	0.000						1.087	01/05	Cont.	Cont.	
MAGTF CSSE & SE	C/FFP	Various	0.000	0.726	02/02	0.517	04/03	0.008	01/04			Cont.	Cont.	
CCR/MCHS	WR	NSWC, Crane, Indiana	0.000			0.000		0.904		0.821	01/04	Cont.	Cont.	
GCSS LSM	TBD	TBD	0.000					13.325		8.251	01/05	Cont.	Cont.	
GCSS Warfighter Portal	TBD	TBD	0.000					2.000		1.000	01/05	Cont.	Cont.	
GCSS CLC2S	TBD	TBD	0.000					2.000	31/04	1.301	01/05	Cont.	Cont.	
GCSS/SDE	TBD	Various	0.000					3.405	04/04	2.800	04/05	Cont.	Cont.	
GCSS/TFSMS	TBD	TBD						3.403	04/04	0.124	01/05	Cont.	Cont.	
Subtotal Product Dev	טפו	TBD	1.443	4.085		4.081		19.642		15.384	01/03	Cont.		
Remarks:			1.443	4.003		4.001	l	19.042		13.304		Cont.	COIII.	
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
Cost Categories	Method	Activity &	PY s	FY 02	Award	FY 03				FY 05		Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	_	Date	Cost	Date	Cost to	Cost	Contrac
GCSS/SDE	TBD	Various	CUSI	CUSI	Date	CUSI	Date	1.810		1.709	01/05	0.000		
GCSS/AIT	TBD	TBD						0.299		0.300	01/05	0.000		
	TOD	100	0.000	0.000		0.000		2.109	01/04	2.009	01/03	0.000	4.118	
Subtotal Support Remarks:			0.000	0.000		0.000		2.109		2.009			4.118	
remarks.														
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
-	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
CCR/MCHS	WR	NSWC, Crane Indiana	0.000	0.000		0.000		1.190	03/05	0.701	03/05	Cont.	Cont.	
TC-AIMS II	WR	NSWC, Crane, Indiana	0.000	0.216		0.225		0.447				0.000		
TC-AIMS II	MIPR	CECOM		0.063	01/02	0.070	11/02	0.100	11/03			0.000	0.233	
TC-AIMS II	WR	NSWC, Crane, Indiana	0.000	0.584	06/02							0.000	0.584	
Subtotal T&E			0.000	0.863		0.295		1.737		0.701		Cont.	Cont.	
Remarks:					•	•			•			•		•
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target
-	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
ATLASS PIP	WR	MCSC, QUANTICO, VA		0.063	11/01							0.000	0.063	
Subtotal Management			0.000	0.063		0.000		0.000		0.000		0.000	0.063	
Remarks:														
Total Cost				5.011		4.376		23,488		18.094		Cont.	Cont.	

EXHII	BIT R-2a, RDT8	E Project Ju	stification				DATE:			
								Februa	ry 2003	
APPROPRIATION/BUDGET ACTIVITY	IDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT							NAME		
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M M	arine Corps (Communicati	on Systems		C3099 RADA	R SYSTEMS			
									Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	0.000	0.000	19.810	57.762	48.143	38.931	6.110	5.080	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- 1. The Aviation Radar (AN/TPS-59) is a "congressionally mandated" national asset. It is the only fielded ground-based sensor which can detect and track Theater Ballistic Missiles at ranges of 400 nautical miles, for 360 degrees up to one million feet in elevation. FY02 and FY03 funding are in Project C2273.
- 2. The Ground Weapons Locating Radar (GWLR) is an expeditionary radar that can acquire threat indirect fire systems including mortars, artillery, rocket and missile systems. The principle functions of the system will be to detect, track, classify and accurately determine the origin of enemy weapons platforms. The GWLR will also be capable of registering and adjusting friendly indirect fire while simultaneously maintaining hostile surveillance.
- 3. The Multi-Role Radar System (MRRS) will provide lightweight, expeditionary, three-dimensional radar capable of detecting Cruise Missiles (CMs), fixed and rotary winged aircraft, Unmanned Aerial Vehicles (UAVs), and will also provide an enhanced Combat Identification (CID) capability. The system will augment the AN/TPS-59(V)3 sensor coverage and will be integrated into the Navy's Cooperative Engagement Capability (CEC) and the Marine Corps Composite Tracking Network (CTN). Additionally, the system shall provide Air Traffic Control with real time surveillance coverage of all air activity within the assigned area of responsibility and will support the situational awareness and cueing for Stinger, Avenger, and CLAWS.
- 4. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. As part of this effort, AN/TPS-63 modifications and system improvements will be researched and analyzed to determine which complement existing components to preclude an expensive USMC investment in solid-state radar technology. FY02 and FY03 funding are in Project C2278.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (# in Millians)	FY 2002	FY 2003	FY 2004	FY 2005
COST (\$ in Millions)				
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.720	0.000
RDT&E Articles Qty				
AN/TPS-59: Develop acquisition documentation	for modernization initiative.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.896	1.936
RDT&E Articles Qty				
AN/TPS-59: In-house program management/gov	vernment expense for modernization	on initiative.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.352	0.557
RDT&E Articles Qty				
AN/TPS-59: Contractor service support.	•			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.696	17.647
RDT&E Articles Qty				
AN/TPS-59: System development and demonstra	ntion for modernization initiative.	•	•	•

EXH	IBIT R-2a, RDT&E Project Justification		DATE:	
				ruary 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT N	UMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Sy	ystems C3099 RAD	AR SYSTEMS	
COST (\$ in Millions)	FY 2002 FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000 0.000	2.892	2.606	
RDT&E Articles Qty				
AN/TPS-59: Develop ECPs for software improv	rements and DMS issues.			
COST (\$ in Millions)	FY 2002 FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000 0.000	0.000	0.000	
RDT&E Articles Qty				
AN/TPS-59: Efforts funded in FY02 and FY0	3 under Project C2273 of this PE. Demonstrate poter	ntial antenna technology/slotted wavegr	uide antenna (FY02 \$5.907);	Develop Engir
	on (FY02 \$1.612); Develop ECP to incorporate new tra			
Develop ECP for software improvements (FY03	\$1.939); Develop AFAR Software (FY03 \$1.500); Inve	estigate Advanced Technologies (FY03	\$2.100).	
COST (\$ in Millions)	FY 2002 FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000 0.000	0.000	0.000	
RDT&E Articles Qty				
	der Project C2278 of this PE. Developmental Test ar	nd Evaluation(FY02 \$0.121); Develop	ment of Engineer Design Mo	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un	nder Project C2278 of this PE. Developmental Test arment support (FY02 \$0.025) and (FY03 \$0.058).	nd Evaluation(FY02 \$0.121); Develop	ment of Engineer Design Mo	odel (FY02 \$0.12
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage	ment support (FY02 \$0.025) and (FY03 \$0.058).	•		odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003	FY 2004	FY 2005	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ment support (FY02 \$0.025) and (FY03 \$0.058).	•		odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000	FY 2004 0.325	FY 2005	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003	FY 2004 0.325	FY 2005	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co	FY 2004 0.325 ost Estimate.	FY 2005 0.000	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000	FY 2004 0.325	FY 2005	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate; COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co	FY 2004 0.325 ost Estimate. FY 2004	FY 2005 0.000 FY 2005	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate; COST (\$ in Millions)	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000	FY 2004 0.325 ost Estimate. FY 2004	FY 2005 0.000 FY 2005	odel (FY02 \$0.1
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CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions)	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004	FY 2005 0.000 FY 2005 1.600	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate, COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47.	FY 2004 0.325 ost Estimate. FY 2004 1.169	FY 2005 0.000 FY 2005 1.600	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate; COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004	FY 2005 0.000 FY 2005 1.600	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211);Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strates COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support.	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Color FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202	odel (FY02 \$0.1
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CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate; COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ment support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Color FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate; COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	rement support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co. FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000 FY 2003 0.000 FY 2003 0.000 O.000 0.000	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193 FY 2004	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate, COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Development of Configuration Manage	rement support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000 FY 2003 0.000 0.000 ment Plan and ILS Plan.	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193 FY 2004 0.000	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202 FY 2005 0.272	odel (FY02 \$0.1
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate, COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Development of Configuration Manage COST (\$ in Millions)	rement support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000 FY 2003 FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193 FY 2004 0.000	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202 FY 2005 0.272 FY 2005	odel (FY02 \$0.1	
CWAR: Efforts funded in FY02 and FY03 un Sentinel Radars (FY03 \$0.211); Program manage COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Refinement of ORD, Acquisition Strate, COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Test and evaluation of Marine Corps e COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Program management support. COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty GWLR: Development of Configuration Manage	rement support (FY02 \$0.025) and (FY03 \$0.058). FY 2002 FY 2003 0.000 0.000 gy, Acquisition Baseline Agreement, and Life Cycle Co FY 2002 FY 2003 0.000 0.000 quipment configuration of the AN/TPQ-47. FY 2002 FY 2003 0.000 0.000 FY 2003 0.000 0.000 ment Plan and ILS Plan.	FY 2004 0.325 ost Estimate. FY 2004 1.169 FY 2004 0.193 FY 2004 0.000	FY 2005 0.000 FY 2005 1.600 FY 2005 0.202 FY 2005 0.272	odel (FY02 \$0.1

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 127 of 147)

EX	HIBIT R-2a, RDT&E Project Ju	stification		DATE:	0000
ADDDODDIATION/DUDGET ACTIVITY	DDOOD ANA EL ENACNET NUL	MDED AND NAME	DDO IFOT A	Februa	ry 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	MBER AND NAME	PROJECT N	IUMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps	Communication Systems	C3099 RAD	AR SYSTEMS	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.106	1.000	
RDT&E Articles Qty					
MRRS: Program management support. Funding	ng (\$1.150) in FY03 for this effort	is provided under Project C2278 of	this PE.		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500	0.000	
RDT&E Articles Qty					
MRRS: Analysis of antenna alternatives, analy	sis of system integration solutions.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000	
RDT&E Articles Qty					
MRRS: Antenna design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.500	
RDT&E Articles Qty					
MRRS: Transmitter design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	11.000	
RDT&E Articles Qty					
MRRS: Software design and development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	4.000	
RDT&E Articles Qty					
MRRS: Hardware design and development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000	
RDT&E Articles Qty					
MRRS: Receiver/exciter design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	4.675	
RDT&E Articles Qty					
MRRS: Developmental testing.		•			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.000	
RDT&E Articles Qty					

EXI	HIBIT R-2a, RDT&E Project Ju	stification		DATE:	
				Febru	ıary 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	MBER AND NAME	PROJECT N	UMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps	Communication Systems	C3099 RADA	AR SYSTEMS	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
MRRS: Efforts funded in FY03 under Project	ct C2278 of this PE. Refinement	of the ORD, Campaign Level Ef	fectiveness Analysis, Analys	sis of Alternatives and Life Cy	cle Cost Estimate (\$2.367).
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	7
ccomplishment/Effort Subtotal Cost	0.000	0.000	0.135	0.135	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE	RADAR: Program management s	upport. Funding in FY02 (\$0.11	0) and in FY03 (\$0.110) for	this effort is found under Pro	ject C2278 of this PE.
		3		•	•
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	□
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.337	0.000	7
RDT&E Articles Qty					7
SHORT/MEDIUM RANGE AIR DEFENSE	RADAR: Developmental Test and	1 Evaluation of the Frequency Ge	enerator assembly.	1	_
			,		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.000	
RDT&E Articles Qty	3.000	0.000		0.000	7
SHORT/MEDIUM RANGE AIR DEFENSE	RADAR: Engineer Design Model	of the Frequency Generator asse	embly.	1	_
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.382	\dashv
RDT&E Articles Qty	0.000	0.000	0.000	0.302	
SHORT/MEDIUM RANGE AIR DEFENSE	PADAR: Developmental test and	avaluation of the Low Level Pov	var Supply accambly	1	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250	_
RDT&E Articles Qty	1				
SHORT/MEDIUM RANGE AIR DEFENSE		of the Low Level Power Supply	•		<u></u>
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE					
RF/IF Receiver circuit card (FY02 \$0.139); Dev	velopment of Engineer Design Mo	del of the High Voltage and RF/I	F Receiver assemblies (FY0	2 \$0.100); Developmental Te	est and Evaluation of Receiv
sub-assemblies (FY03 \$0.137); Development	of Engineer Design Model of Rec	eiver sub-assemblies (FY03 \$0.1	50); Program Management	Support (FY02 \$0.110) and (F	FY03 \$0.110).
•	-		-		
(I) T-4-1 ¢ (C2000 D- 1 C - 4 -)	0.000	0.000	10.010	ET T(2	
U) Total \$ (C3099 Radar Systems)	0.000	0.000	19.810	57.762	

EXHIB	IT R-2a, RDT&E	Project Just	ification			D	ATE:	Februai	n. 2002	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	EMENT NUME	BER AND NAM	ИE	1	PROJECT NUM	MBER AND N		y 2003	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Mai	rine Corps Co	mmunication	n Systems	(C3099 RADAR	SYSTEMS			
(U) PROJECT CHANGE SUMMARY:	FY 2002	FY 2003	FY 2004	FY 2005	•					
(U) FY 2003 President's Budget: (U) Adjustments from the President's Budget:	0.000	0.000	0.000	0.000						
(U) Congressional/OSD Program Reductions			-0.674	-1.348						
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings (U) SBIR/STTR Transfer			20.484	59.110						
(U) Minor Affordability Adjustment										
(U) FY 2004 President's Budget: CHANGE SUMMARY EXPLANATION:	0.000	0.000	19.810	57.762						
(U) Funding: This is a new project created(U) Schedule: Not Applicable.(U) Technical: Not Applicable.	by the realignme	nt of programs	s within the Ma	arine Corps dı	uring POM 04	4.				
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cos
(U) PMC, BLI#465100, AN/TPS-59 (NON TEL)	0.000	0.000	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuin
(U) PMC, BLI#463600, AN/TPS-59 (NON TEL)	5.179	7.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.643
(U) PMC, BLI#464200, Ground Weapon Locator Radar (U) PMC, BLI#462000, AN/TPQ-46/46A Upgrade	0.000 0.000	0.000 4.167	0.052 0.000	0.862 0.000	0.820 0.000	28.830 0.000	0.285 0.000	0.295 0.000	Continuing 0.000	Continuing 4.16
(U) PMC, BLI#464200, Multi-Role Radar System	0.000	0.000	0.000	0.000	2.067	33.156	45.635	46.789	Continuing	Continuin
(U) PMC, BLI#464000, Short/Med Range Radar	0.000	0.977	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.97
(U) PMC, BLI#464200, Short/Med Range Radar	0.000	0.000	1.581	1.425	0.523	0.432	0.439	0.444	Continuing	Continuin
(U) Related RDT&E:										
(0) 11014104 115 1514										

EXHIBI	T R-2a, RDT&E Project Justification		DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT N	JMBER AND NAME
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems	C3099 RADA	R SYSTEMS
(II) D. ACQUIEITION STRATECY.			

(U) D. ACQUISITION STRATEGY:

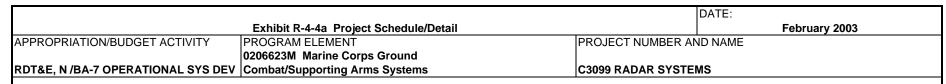
- (U) AN/TPS-59 RADAR Modernization: The modernization initiative will encompass all 11 radar systems within the Marine Corps inventory. Due to technological advances, evolving threats, mobility issues, changes in employment concepts (OMFTS and EMW), interface requirement imposed by developing systems (CAC2S, CEC/CTN and CLAWS) and requirements outlined in the Capstone Requirements Documents (CID, TAMD, GIG, and IDM), the AN/TPS-59(V)3 must undergo modernization. The Acquisition Strategy is based on the recommendations from the Business Case Analysis and two independent modernization studies. Beginning in FY04, the program office will start R&D efforts that will incorporate the ORD change 4 requirements into the current 11 fielded AN/TPS-59(V)3 radars. It is anticipated that this effort will require 3 years of R&D with a combined DT/OT. Forecasted IOC is FY08 with FOC for 11 systems occurring in FY13.
- (U) AN/TPS-59 Radar SLEP: The Program Office intends to address Diminishing Manufacturing Sources (DMS) issues by continuing with the Service Life Extension Program (SLEP) started in POM 02 initiative and they will also begin R&D efforts that will modernize the radar with advanced technology and performance capabilities. A Business Case Analysis (BCA) was completed which incorporated two independent obsolescence/DMS studies that identified critical components which will severely impact the system performance and readiness by FY07. Based upon the BCA, the program office intends to sustain 5 of the 11 systems. The refurbishing and sustaining of 5 systems will enable 3 active (1 per MEF), 1 supporting and 1 reserve unit to have a system with current technology, extend system life cycle and lower the radars' overall operating cost. The remaining 6 systems will transition during the modernization effort.
- (U) The Ground Weapons Locating Radar (GWLR) AN/TPQ-47 is a U.S. Army lead program. With the exception of some minor Marine Corps specific equipment configuration changes, all prototype development, testing, and system integration will be conducted by the U.S. Army. The AN/TPQ-47 radar is an interim solution to the GWLR, as the AN/TPQ-47 radar does not meet all of the requirements in the GWLR ORD. However, the maturity of the U.S. Army's AN/TPQ-47 radar program will provide a radar system that has the extended range capability needed for the MAGTF to match the range of the High Mobility Artillery Rocket System (HIMARS). Funding for PMC for FY04-FY06 will be for Life Cycle Upgrade and to procure Battery Chargers. HIMARS IOC is scheduled for FY07.
- (U) MRRS: The MRRS will build off the ONR Affordable Ground Based Radar Science and Technology program that will demonstrate advanced mobility combined with medium radar range, high resolution, and superior clutter reduction. FY04 waiting for Source Selection, FY06 PMC funding is for a long lead item.
- (U) SHORT/MEDIUM RANGE AIR DEFENSE RADAR: This effort requires R&D funds to develop modifications to keep the Short/Medium Range Air Defense Radar System's electronics and hardware viable and safe, providing sustainment for the fielded system. Efforts are underway to award a sole source Engineering Services and procurement contract with the AN/TPS-63's Original Equipment Manufacturer, Northrop Grumman. The main focus of the contract will be the development and procurement of replacement sub-assemblies currently identified as containing obsolete components, as well as those assemblies experiencing reliability, maintainability and safety related issues.

(U) E. MAJOR PERFORMERS:

- (U) Lockheed Martin Corp, Syracuse, NY. Projected to be put on contract in Jan 04 for AN/TPS-59 to develop ECPs for software improvements and DMS issues.
- (U) Contractors TBD by competitive sourcing, projected to be put on contract in Jan 04 to support the AN/TPS-59 modernization initiative for in-house program management/government expense and system development/demonstration and to develop acquisition documentation.
- (U) Contractor TBD by competitive sourcing. Projected to be put on contract in Jan 05 to support the AN/TPS-59 modernization initiative for in-house program management/government expense and system development/demonstration. Contractors TBD by competitive sourcing.
- (U) Raytheon, El Segundo, CA. Projected to be put on contract in Jan 04 for test and evaluation of Marine Corps equipment configuration of the AN/TPQ-47 in support of GWLR.
- (U) Raytheon, Sudbury, MA. Projected to be put on contract in Jan 04 for the Affordable Ground Based Radar (AGBR) in support of MRRS.
- (U) GSA, BREMERTON, WA. Projected to be put on contract in Jan 04 for writing and reviewing MRRS documentation and performing an AGBR evaluation.
- (U) Contractor TBD by competitive sourcing, projected to be put on contract in Mar 05 for MRRS software design and development.

		<u></u>	·					-			DATE:				
		Exh	ibit R-3 Cost A						ı				February	2003	
APPROPRIATION/BUDGET A	ACTIVITY		PROGRAM EL	EMENT.					PROJEC	CT NUMI	BER AND I	NAME			
			0206623M Ma												
RDT&E, N /BA-7 OPERATIO			Combat/Supp		ms Sys			1	C3099 R		SYSTEMS				
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 02				1		FY 05		Cost to	Total	Value of
Requirements)	& Type	Location	A 13 /	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
AN/TPS-59	C/CPFF	Lockheed, Syra	acuse NY	0.000			0.000		2.892	01/04		01/05	Cont.	Cont.	
AN/TPS-59	TBD	TBD		0.000			0.000		6.312	01/04	19.583	01/05	Cont.	Cont.	
MRRS	RCP	Raytheon, Sud		0.000			0.000		4.164	01/04	0.000		0.000		
MRRS	RCP	Contractor TBD		0.000			0.000		0.000			01/05	Cont.	Cont.	
MRRS	RCP	Contractor TBD		0.000			0.000		0.000		3.500		Cont.	Cont.	
MRRS	RCP	Contractor TBD		0.000			0.000		0.000		11.000		Cont.	Cont.	
MRRS	RCP	Contractor TBD		0.000			0.000		0.000		4.000		Cont.	Cont.	
MRRS	RCP	Contractor TBD		0.000			0.000		0.000			01/05	Cont.	Cont.	
MRRS	RCP	Contractor TBD		0.000			0.000		0.000		2.000		Cont.	Cont.	
SHORT/MEDIUM RANGE	RCP	Northrop Grum	man	0.000	0.000		0.000		0.325	03/04	0.250	03/05	Cont.	Cont.	
Subtotal Product Dev				0.000	0.000		0.000		13.693		48.939		Cont.	Cont.	
Remarks:															
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Iter		Activity &		PY s	FY 02	Award					FY 05		Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
GWLR	WR	NSWC, Dahlgr	en, VA	0.000	0.000		0.000		0.047	01/04	0.051	01/05	Cont.	Cont.	
GWLR	WR	Northrup Grum	man	0.000	0.000		0.000		0.146	01/04	0.151	01/05	Cont.	Cont.	
MRRS	WR	NSWC, Dahlgr	\/A	0.000	0.000		0.000		0.500	01/04	0.000		0.000	0.500	
MKKS	WK	INSVVC, Danigh	en, va	0.000	0.000		0.000								
SHORT/MEDIUM RANGE	WR	NSWC, Crane,		0.000			0.000		0.135	01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
										01/04	0.135	01/05	Cont.	Cont.	
					0.000					01/04	0.135	01/05	Cont.	Cont.	

		Evh	ihit B 2 Cost A	nalvoio							DATE:		February	2002	
APPROPRIATION/BUDGET	ACTIVITY	EXII	ibit R-3 Cost A						PROJEC	CT NUM	L BER AND	NAME	rebruary	2003	
DDT05 N /DA 7 OD5DATIO		>=\/	0206623M Ma		•				00000 5						
RDT&E, N /BA-7 OPERATIO			Combat/Supp		rms Sys			I=	C3099 F		SYSTEMS	I=	1	1	
Cost Categories	Contract	Performing		Total	E) (00	FY 02	E) / 00	FY 03	E) / 0 /	FY 04	E) / 0 =	FY 05			Target
(Tailor to WBS, or System/Ite		Activity &		PY s					FY 04		FY 05		Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost			Date	Complete	Cost	Contract
GWLR	RCP	Raytheon, El S		0.000			0.000			01/04		01/05			
MRRS	RCP	Contractor TBD		0.000			0.000		0.000			01/05		_	
SHORT/MEDIUM RANGE	RCP	Warner Robins	AFB, GA	0.000	0.000		0.000		0.337	03/04	0.382	01/05	Cont.	Cont	
Subtotal T&E				0.000	0.000		0.000		1.506		6.657		Cont.	Cont	
Remarks:															
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Ite		Activity &		PY s	FY 02	Award	FY 03		FY 04		FY 05		Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost		Cost		Complete		Contract
AN/TPS-59	CPFF	Anteon, Staffor		1.739			0.000		1.352		0.557		Cont.		
GWLR	MIPR	GSA, Bremerto		0.000			0.000			01/04	0.272		Cont.		
MRRS	MIPR	GSA, Bremerto		0.000			0.000		1.616		0.317	01/05	Cont.		
MRRS	RCP	MCSC, Quantio	co, VA	0.000	0.000		0.000		0.490	01/04	0.683	01/05	Cont.	. Cont.	
				1.739	0.000		0.000		3.783		1.829		Cont.	Cont.	
Subtotal Management									3.703		1.029		Cont.	.i Cont.	. 1
Subtotal Management Remarks:				1.739	0.000		0.000		•	•		•	•		
Subtotal Management Remarks:				1.738	0.000	1	0.000	•							•



Milestone Schedule AN/TPS-59 Sustainment/Modernization



Fiscal Year	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	To Completion
SUSTAINMENT									
MODERNIZATON Concept & Technology Developmental Phase AcquisitionDocumentation Selecton Process		Oct03		Mar 05	MSB FY05 05	•	MSC FY07		
System Development System htegration (EDM) Combined DT/IOT&E				Jun Of	Ma	Mar0	Sep07 7 Aug07		
Production ICC FCC Program Support							FY-08 IOC 1 SYSTEM		

Program Funding Summa	<u>nary</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 FY	<u> 2008</u>	FY 2009	To Compl	Total Cost
(APPN, BLI #, NOMEN)	<u>)</u>										
(U) RDT&E,N, C2273		10.177	5.539	0.562	0.000	0.000	0.000	0.000	0.000	0.000	16.278
(U) RDT&E,N, C3099		0.000	0.000	10.556	22.746	25.793	21.386	4.847	3.818	Continuing	Continuing
(U) PMC, BLI#463600, Al	N/TPS-59	5.179	7.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.643
(U) PMC, BLI#465100, Al	N/TPS-59	0.000	0.000	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuing

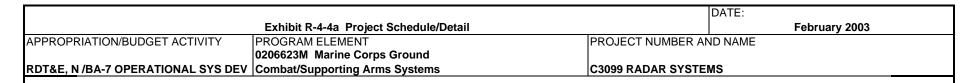
Exhibit R-4-4a Project Sc	hedule/Detai	iI				DATE:	Februs	ry 2003
RIATION/BUDGET ACTIVITY PROGRAM ELEMENT 0206623M Marine Corps G				PROJECT I	NUMBER AI	ND NAME	i esilua	ii y 2005
V/BA-7 OPERATIONAL SYS DEV Combat/Supporting Arms S		ı	1	C3099 RAD	AR SYSTE	MS	1	, ,
	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
AN/TPS-59 SUSTAINMENT SCHEDULE	3rd Q-				4th Q			
AN/TPS-59 MODERNIZATION SCHEDULE DETAIL								
Milestone A			1st Q					
Concept & Technology Developmental Phase			1st Q	3rd Q				
Acquisition Documentation			1st Q	2nd Q				
Selection Process				2nd Q-3rd (2			
Milestone B				3rd Q				
System Development				3rd Q		4th Q		
System Integration (EDM)				3rd Q		2nd Q		
Combined DT/IOT&E						2nd Q-4th (2	
Milestone C						4th Q		
Production							1st Q	
IOC							4th Q	
FOC								
Program Support	3rd Q	 T	 T	 T	 	 T	 T	

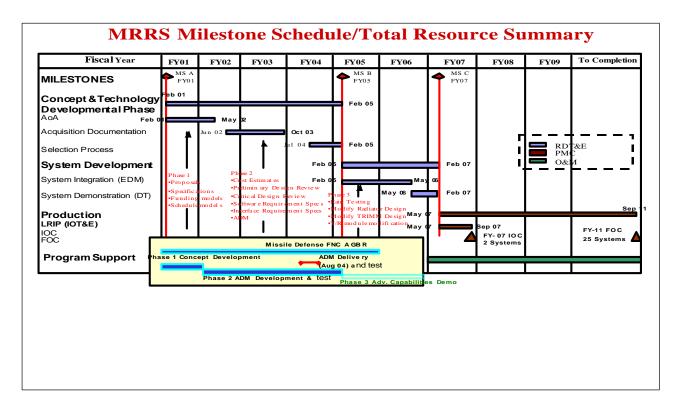
Exhibit	R-4-4a Proje	ct Schedule	e/Detail				Fe	bruary 2003
	M ELEMENT I Marine Cor	ps Ground			PROJECT N	JMBER AND N	IAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV Combat/S			s		C3099 RADA	R SYSTEMS		
	CROUND	WEADONS	LOCATING	DADAD COUE	OULE PROFILE			
Miles					source S		ary	1
·	FY04	FY05	FY06	FY07	FY08	FY09	TOTAL	=
MILESTONE B Phase B Activities Program Docs System Integration Developmental Testing MILESTONE C Phase C Activities Operational Test	<u> </u>		-					
Full Rate Production IOC FOC				Output		\$\diamondred{\text{\tin}\text{\tinit}\\ \text{\tinit}\\ \text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\tint{\text{\texit{\texi}\tittt{\texitilex{\tiint{\texitilex{\texi}\tint{\texitilex{\texi}\t		
			•	•		1	•	-1

Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(APPN, BLI #, NOMEN)										
(U) RDT&E,N, C3099, GWLR	0.000	0.000	1.687	2.074	0.988	0.316	0.000	0.000	0.000	5.065
(U) PMC, BLI#464200, GWLR	0.000	0.000	0.052	0.862	0.820	28.830	0.285	0.295	Continuing	Continuing
(U) PMC, BLI#462000, AN/TPQ-46/46A Upgrade	0.000	4.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.167

DATE:

									DATE:		
4 000 00	DIATION/DIROST ACTIVITY	Exhibit R-4-4a	Project Sch	edule/Deta	il		IDDO IDOT		15 114145	Februa	ry 2003
APPROP	RIATION/BUDGET ACTIVITY	PROGRAM ELEM 0206623M Marin		ound			PROJECT I	NUMBER AI	ND NAME		
RDT&E, I	N/BA-7 OPERATIONAL SYS DEV						C3099 RAD	OAR SYSTE	MS		
	GWLR SCHEDULE DETAIL		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	Milestone B				3rd Q						
	Phase B Activities				3rd Q		1st Q				
	N. C.						4 . 0				
	Milestone C						1st Q				
	Phase C Activities						1		4 	th Q	
	Operational Test						3rd Q-4th Q			41.0	
	Full Rate Production								<u>-</u>	4th Q	
	IOC FOC							3rd Q		3rd Q	
	FOC									310 Q	
				· ·			-				•





Program Funding Summary (APPN, BLI #, NOMEN)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N, C2278, MRRS	0.000	3.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.900
(U) RDT&E,N, C3099, MRRS	0.000	0.000	6.770	32.175	21.006	16.972	1.008	1.005	Continuing	Continuing
(U) PMC, BLI#464200, MRRS	0.000	0.000	0.000	0.000	2.067	33.156	45.635	46.789	Continuing	Continuing

							DATE:		
Exhibit R-4-4a	Project Sche	edule/Detai	il					Februa	ry 2003
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEM					PROJECT	NUMBER AN	ND NAME		
0206623M Marin	e Corps Gro	und							
RDT&E, N /BA-7 OPERATIONAL SYS DEV Combat/Support	ing Arms Sy	stems			C3099 RAI	DAR SYSTE	MS		
MRRS SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Concept & Technology Developmental Phase			2	nd Q					
Analysis of Alternatives	3rd Q								
Acquisition Documentation	3rd Q		1st Q						
Selection Process			4th Q	2nd Q					
Milestone B				2nd Q					
System Development				2nd Q		2nd Q			
System Integration (EDM)				2nd Q					
System Demonstration (DT)					3rd Q	2nd Q			
Milestone C						2nd Q			
Production						3rd Q			
LRIP (IOT&E)						3rd Q-4th Q	!		
IOC						4th Q			
Program Support						1st Q			

EXHIBIT R-2a,	EXHIBIT R-2a, RDT&E Project Justification				DATE:					
				February 2003						
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PR				PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	ational Sys Dev 0206313M Marine Corps Communications Systems				C9273 Defen	se Emergency	/ Response F	Fund (DERI	F)	
									Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	0.000	12.490	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- 1. Intelligence System Readiness (ISR) Program will provide timely and targeted solutions to better enable the MAGTF Commander to accomplish his mission by (1) injecting technology rapidly, and (2) conducting up-front testing and integration. The current Marine Corps Intelligence architecture encompasses dozens of systems, acquired over a span of decades, often with little regard for interoperability. Additionally, some systems have gaps in functionality and interoperability which, when balanced against rapid advancements in technology, bring those systems to the brink of obsolescence. The ISR Program enhances the Marine Corps Intelligence Architecture by mitigating operational shortfalls through Commerical-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) technology. In this way, ISR provides proof-of-concept prototypes and focused Research and Development (R&D) efforts to support the Marine Corps Intelligence Architecture and shorten the time required to fill gaps and field sytems. The ISR program Team also trains Marines to maximize new sytems and capabilities.
- 2. The Interim Small Unit Remote Scouting System (I-SURSS) funds will be used for development, demonstration and testing of product improvements and block upgrades.
- 3. The JSIPS-TEG is a highly mobile imagery ground station designed to receive and process tactical imagery in support of the MEF/MAGTF commander. This Common Imagery Ground Surface System (CIGSS) is an integral component of the USMC Distributed Common Ground Station (DCGS) architecture that enables the MEF/MAGTF commander to remain interoperable with other Joint and USMC C4I systems. The system provides the capability to receive, process, store, exploit (to include PGM targeting support), and disseminate national theater, and tactical imagery, as well as providing interoperability with the Army's Tactical Exploitation System (TES), the Navy's Joint Services Imagery Processing System Navy (JSIPS-N), and the Air Force Intelligence Systems Reconnaissance Manager (ISRM) systems during joint engagements.
- 4. Manpack Secondary Imagery Dissemination System (MP SIDS) is a Commercial-Off-The-Shelf (COTS) refresh of a fielded system. MP SIDS consists of one (1) Base Station and three (3) Portable Outstations. It is used by the Reconnaissance Marines to electronically receive, process, reproduce, and disseminate near-real-time imagery throughout the battlefield to support all echelons of the MAGTF.
- 5. The Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRPs with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a rugerized, modular; man packable system specifically designed utilizing emerging NDI/COTS/GOTS technology for RRP operations, particularity those conducted under the most austere conditions. The RREP SS-3 will be fielded in the 1st Qtr FY04. It will have the added capability to intercept advanced wireless targets identified by the NSA to be operated from remoted positions. SS-3 will extend its life cycle to six years and product improvements will focus on new software and DSP technologies which may be incorporated into the existing system. This approach allows the program to utilize the major components for the entire life-cycle while still keeping page
- 6. TACPHOTO provides the capability for digital imagery to be captured through out the remainder of the Marine Corps. TACPHOTO provide the unique view required for the majority of the ground-based operations. It provides high-end digital still-photo camera with long-range telephoto and other special lenses including a night vision capability.
- 7. Technical Control Analysis Center (TCAC). The primary mission of the TCAC is to provide the Radio Battalions (RadBn) with an automated Signals Intelligence (SIGINT) processing, analysis, and reporting capability. The TCAC system is designed to receive collected intelligence from tactical, theater and National level producers and provide a multi-source fused intelligence production capability to support the Marine Air Ground Task Force (MAGTF) commander via the Intelligence Analysis System (IAS), as well as the National Security Agency (NSA) and other National consumers.

EXHIBIT R-2a,	DATE:	DATE:					
,	•			February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	MBER AND NAME	PROJECT NUMBER AND				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps	Communications Syste	ems C9273 Defense Emergeno	v Response Fund (DI	FRF)		
8. Tactical Exploitation of National Capabilit							
gathering systems. Congressionally directed							
9. Team Portable Collection System - Multi-	Platform Capable - The TPCS- I	MPC will provide the MA	GTF commander with a modula	r and scaleable carry or	n/off suite of equipment		
capable of conducting Signals Intelligence (S	SIGINT) operations onboard orga	anic non-dedicated Marii	ne Corps air, ground, and water	borne platforms. The 1	PCS-MPC will be highly		
modular, mission configurable, multi-platform							
support to the MAGTF through the use of light				d exploiting current and	l emerging communications		
technologies, intercepting non-communication	on signals, and improving the sy	stem's geolocation accur	acy.				
(U) B. ACCOMPLISHMENTS/PLANNED P	ROGRAM:						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost		1.171					
RDT&E Articles Qty							
ISR: Funds are for CIHEP migration to	GCCS-I3, Development of ISR	Architecture Replication	and Program Engineering Supp	ort.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost		2.439					
RDT&E Articles Qty							
I-SURSS: Funds will accelerate the develo	pment of SURSS.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost		0.976					
RDT&E Articles Qty							
JSIPS TEG: Fielding the TIGDIL-II, Pro	cure and Deploy New Platforms	and Upgrade CDL Softv	vare Baseline.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost		0.293					
RDT&E Articles Qty							
MANPACK SIDS: Upgrade Adv/Basic	Camera's, computer and Softwa	are, Video technology and	d Perform 3 FUE.		<u> </u>		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	\neg		
Accomplishment/Effort Subtotal Cost		0.293					
RDT&E Articles Qty		0					
RREP: Research Alternative Power De	velopment, Contractor Logistic	Support.	L	l			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost	2552	0.098	200 .	2000			
RDT&E Articles Qty		3.333					
TACPHOTO: Upgrade Adv/Basic Came	era's, Video Technology and Pro	otective Measures.	•	ı			

EXHIBIT R-2a, RD	T&E Project Jus	tification			DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUME	BER AND NAM	1E	PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mar	ina Carne Ca	mmunication	e Svetome	C0272 Defense Emergenc	cy Response Fund (DERF)			
COST (\$ in Millions)	FY 200		FY 200		FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost	11200	2	2.439		1 1 2004	1 1 2003			
RDT&E Articles Qty			2.400	<u>'</u>					
TCAC: Conduct Hardware Server, Client W	orkstation, peripl	neral/ancilliary	replacement	study, ELIN	IT H/W and S/W Study.				
COST (\$ in Millions)	FY 200	2	FY 200		FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost			1.464						
RDT&E Articles Qty									
TENCAP:						_			
COST (\$ in Millions)	FY 200	2	FY 200		FY 2004	FY 2005			
Accomplishment/Effort Subtotal Cost			3.317	,					
RDT&E Articles Qty									
(U) Total \$	0.000		12.490		0.000	0.000			
	FY2002	FY2003	FY2004	FY2005					
(U) Project Change Summary (U) FY 2003 President's Budget:	0.000	0.000	0.000	0.000					
(U) Adjustments from the President's Budget:	0.000	0.000	0.000	0.000					
. , ,		-0.310							
(U) Congressional/OSD Program Reduction	IS	-0.510							
(U) Congressional Rescissions		12 000							
(U) Congressional Increases		12.800							
(U) Reprogrammings (U) SBIR/STTR Transfer									
, ,	0.000	12.490	0.000	0.000					
(U) FY 2004 President's Budget:	0.000	14,470	0.000	0.000					
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.									

EXHIBIT R-2a, R	EXHIBIT R-2a, RDT&E Project Justification									
•	-			!	February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELF	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
							_			
RDT&E, N /BA-7 Operational Sys Dev		ine Corps Co	mmunication	s Systems	C9273 Defense	Emergency I	Response Fi	und (DERF	·)	
(U) C. OTHER PROGRAM FUNDING SUMM	ARY:									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI# 462000 ISR	0	1.683	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
PMC BLI# 473400 SURSS	0	0	2.058	10.092	11.759	0.928	0.954	0.969	Continuing	Continuing
PMC BLI# 475000 ISURSS	0	4.155	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
PMC BLI# 463600 FLAMES (CESAS)	0	2.936	0.000	1.000	4.194	4.099	0.488	1.385	Continuing	Continuing
PMC BLI# 474700 TACPHOTO	0	1.584	0.000	0.000	0.000	3.427	0.153	1.192	Continuing	Continuing
PMC BLI# 474700 JSIPS TEG	5.699	11.427	2.905	0.618	0.000	0.000	0.000	0.000	Continuing	Continuing
PMC BLI# 474700 RREP	0	3.939	0.000	0.000	4.194	0.000	0.000	4.228	Continuing	Continuing
PMC BLI# 474700 MANPACK SIDS	0	0	1.062	2.857	1.711	1.712	1.762	1.721	Continuing	Continuing
PMC BLI# 474900 TCAC	0.863	1.462	0.345	1.545	0.945	0.945	0.945	1.145	Continuing	Continuing
PMC BLI# 474900 TPCS	0	8.097	0.005	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
(U) Related RDT&E: Not Applicable.										

(U) D. ACQUISITION STRATEGY:

- (U) ACQUISITION STRATEGY ISR: The ISR Program is embracing the capabilities-based, evolutionary approach of the new DoD 5000 series guidance to allow for a quick and efficient insertion of technology to the MAGTF. Currently, full-time contractor support is provied by BAE Applied Technologies, Bulldog Technical Services, and MTC Services Corporation. All Contractor support is resident within the ITS facility.
- (U) ACQUISITION STRATEGY ISURSS: I-SURSS is an abbreviated acquisition program designed to rapidly transition a Science and Technology development effort through the system demonstration phase to production and deployment. The Dragon Eye Unmanned Aerial Vehicle system will be modified through evolutionary upgrades to meet a time phased range of SURSS requirements outlined as blocks in the SURSS ORD. Two competitive engineering support contracts were awarded in July 2001 and pre-production assets were built to conduct evaluations. The Government will conduct source selection from the data gathered and award a production contract in the 4th Quarter of FY03.
- **(U) ACQUISITION STRATEGY JSIPS TEG:** The three deployed TEG(s) were procured from an ESC USAF Raytheon contract. During FY02, the Marine Corps brought control of the TEG program into Marine Corps System Command. A contract is in place with SPAWAR Charleston, SC to upgrade the TEG(s), conduct training, provide logistical support, sustainment and program management. Once a system baseline is established and tested, a MS III decision will be scheduled.
- (U) ACQUISITION STRATEGY MP SIDS: Seventy three (73) suites of the refreshed MP SIDS have been integrated and are in-process of being fielded. Fielding will be accomplished during the FY 02-03 timeframe. A contract is in place with SPAWAR Charleston, SC to provide configuration management, research and development and program management support. The MP SIDS has an estabilished baseline and will receive a technological refresh of 33% of the system each year for FY 04 through 06.
- (U) D. ACQUISITION STRATEGY RREP: The RREP will incorporate and integrate cutting edge technologies through the use of Commercial off the Shelf (COTS) components to include Marine Corps Common Hardware components and Government off the Shelf (GOTS) DII COE compliant software. Contract is Cost Plus Fixed Fee (CPFF).
- (U) ACQUISITION STRATEGY TACPHOTO: A contract is in place with NGIT, Stafford VA to provide configuration management, research and development and program management support. Conduct field evaluations, Intragrated Product Team meetings, field evaluation plans and reports.

EXHIBIT R-2a, RD	T&E Project Justification	DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C9273 Defense Emergency Response Fund (DERF)

(U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.

- (U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.
- (U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities.

(U) E. MAJOR PERFORMERS:

INTEL SYSTEM READINESS (ISR)

FY03 MTC Services Corporation (MTC) Stafford, VA. Provide funds for engineering and program management support.

Austin Information System, Austin TX. Provide funds for software development.

INTERIM SMALL UNIT REMOTE SCOUTING SYSTEM (I-SURSS) FY 03 BAE Systems Stafford, VA. Provide funds for program management and technical support.

JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG)

FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for prime integration.

NAVAL SURFACE WARFARE CENTER (NSWC), Crane IN, Provide funds for Operational Testing support.

MARCORSYSCOM, Quantico VA. Provide funds for software development of software baseline.

AFB, Wash, DC Classified Contract.

L3 COMM, Salt Lake City UT. Provide funds for TIGDL development.

MANPACK SIDS (MP SIDS)

FY 03 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support.

RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP)

FY03 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 03

ТАСРНОТО

FY 03 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration.

NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support.

TACTICAL CONTROL AND ANALYSIS CENTER (TCAC)

FY 03 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems.

		In
EXHIBIT K-2a, RD	T&E Project Justification	DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	February 2003 PROJECT NUMBER AND NAME
	0206313M Marine Corps Communications Systems	C9273 Defense Emergency Response Fund (DERF)
TENCAP		
	de funds to develop new intel applications ans means to	receive national intel.
NORTHROP GRUMMAN INFORMATIO engineering and program management.	e funds for prime systems integrator for TPCS-MPC EDM IN TECHNOLOGY (NGIT), System Engineering Technic	al Assistance, Stafford VA Provide funds SETA support contract for system
	es, VA Funds provided for SETA support for Configurat	
BTG, Dumfries VA Funds provide Confundation 2nd RadBn.	tractor Engineering Technical Support (CETS) at RadBr	n for training support and Independent Validation and Verification (IV&V) at 1st and
ZIIU RAUDII.		
(U) SCHEDULE PROFILE:		

EXHIBIT R-2a,	RDT&E Project	Justification			DATE:					
				February 2003						
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PI				PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	Dev 0206313M Marine Corps Communications Systems				C9276 Radar and Ship Maneuver					
									Cost to	Total
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	0.000	7.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.027
RDT&E Articles Qty										

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- 1. IMPR HIGH PERFORMANCE LONG RANGE: The 3-D Expeditionary long-range radar must provide anti-air warfare units of the aviation combat element with sufficient advanced warning and target information to allow for threat evaluation and responsive action, including air raid warning of targeted forces and neutralization of the threat. The radar must provide air controllers with a precise, true air picture of sufficient quality to conduct close control of individual aircraft under a wide range of environmental and operational conditions. The logistical footprint of the radar system must be reduced as technology permits. Downsizing is the key to improved transportability and reduced setup time. In the case of Theater Missile Defense operations, the radar must have the capability, to disseminate target information to the ADCP, and, to the TAOM/future C2 Node for dissemination to all air defense agencies (Marine Corps and Joint Services) and service-to-air missile firing batteries (Marine Corp and Joint Services) by way of a common digital data link.
- 2. MARINE CORPS SHIP TO OBJECTIVE MANEUVER: Integrate the existing Marine SINCGARS radios into multi-user local networks; add militarized palmtops/laptops to display situational awareness and targeting data; link the networks to ships and sensors via high bandwidth communication terminals previously developed for Naval air defense, and perform field demonstrations. Enhance communications network capabilities to allow for the dramatic improvement in the way commanders wage war by allowing them to direct battles from on board their command ships. The communication networks link the commanders with their troops enable the implementation of the desired Ship to Objective Maneuver doctrine.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost		2.050						
RDT&E Articles Qty								
IMPR HIGH PERFORMANCE LONG RANGE: Modernization development.								

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		4.977		
RDT&E Articles Qty				

MARINE CORPS SHIP TO OBJECTIVE MANEUVER: Intergrate and networking.

(U) Total \$	0.000	7.027	0.000	0.000

EXHIBIT R-2a, RD	T&E Project Jus	stification			DATE:					
	-						February	2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUM	BER AND NAME		PROJECT NUM	IBER AND NAM	ΜE			
RDT&E, N /BA-7 Operational Sys Dev	0206313M Mar	ine Corps Co	ommunications	Systems	C9276 Radar a	nd Ship Maneı	uver			
(U) Project Change Summary	FY2002	FY2003	FY2004	FY2005						
(U) FY 2003 President's Budget:	0.000	0.000	0.000	0.000						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions	8	-0.173								
(U) Congressional Rescissions										
(U) Congressional Increases		7.200								
(U) Reprogrammings										
(U) SBIR/STTR Transfer										
(U) FY 2004 President's Budget:	0.000	7.027	0.000	0.000						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: Funding in FY03 is from a	a Congressional F	Plus Up.								
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMAR	Y:									
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
R&D C2273 AN/TPS-59	10.117	5.539	0.562	0.000		0.000	0.000	0.000	Continuing	Continuing
R&D C3099 AN/TPS-59 (ECP's)	0.000	0.000	10.556	22.746		21.386	4.847	3.818	Continuing	Continuing
PMC BLI 463600 AN/TPS-59 PMC BLI 465100 AN/TPS-59	5.179 0.000	7.464 0.000	0.000 18.211	0.000 24.536	0.000 7.48	0.000 11.951	0.000 38.914	0.000 50.443	0.000 Continuing	12.643 Continuing
(U) Related RDT&E: Not Applicable.	0.000	0.000	10.211	24.000	7.40	11.951	30.914	50.443	Continuing	Continuing
(I) D. ACOUNCITION STRATECY.										

(U) D. ACQUISITION STRATEGY:

(U) IMPR HIGH PERFORMANCE LONG RANGE: The Acquisition Strategy is based on the recommendations of a Business Case Analysis and two independent modernization studies. The Project Office is pursuing a two phased acquisition approach fo the AN/TPS-59(V)3 Radar System. The initial phase focuses on sustaining the radar system by continuing the FY02 efforts to resolve diminishing manufacturing sources issues. The second phase is a modernization effort to provide advanced technology to improve performance capabilities of the radar.

(U) MARINE CORPS SHIP TO OBJECTIVE: The Acquisition Strategy is based on the requirement to pursue work under this project in conjunction with work ongoing in other projects that will be integrated for operational effectiveness. The project and the provided funds will be executed via existing contracts that are currently using other funds provided in the President's budget for development of other Marine Corps Communications Systems. The project will support inclusion of additional capabilities, 1) provide assurance that the communications network will support Marine Corps doctrine by allowing the battle commanders to communicate with forward elements throughout the assault as they depart the ship, on board amphibious craft, while ashore and during their return; 2) Facilitate networking the available sensor data, to provide a composite battle picture that includes air and ground targets, video, data from unmanned aerial vehicles and field observations; 3) provide assurance that the network is flexible and adaptable to operational requirements. By pursuing this project in conjunction with other projects we will ensure compatibility with existing Navy systems and ensure project systems can be adapted to the other services system

(U) E. MAJOR PERFORMERS:

IMPR HIGH PERFORMANCE LONG RANGE:

FY03 SEMI-South Corporation, Starkville, MS 31 May 03

MARINE CORPS SHIP TO OBJECTIVE:

FY03 SAIC, St. Petersburg, FL 15 Mar 03

(U) SCHEDULE PROFILE: